

09/870,676
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NEWS 5 SEP 29 DISSABS now available on STN

NEWS 6 OCT 10 PCTFULL: Two new display fields added

NEWS 7 OCT 21 BIOSIS file reloaded and enhanced

NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS 9 NOV 24 MSDS-COHS file reloaded

NEWS 10 DEC 08 CABA reloaded with left truncation

NEWS 11 DEC 08 IWS file names changed

NEWS 12 DEC 09 Experimental property data collected by CAS now available in REGISTRY

NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/Caplus

NEWS 14 DEC 17 DCENE: Two new display fields added

NEWS 15 DEC 18 BIOTECHNO no longer updated

NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer available

NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS databases

NEWS 18 DEC 22 IFIPAT/IFIUB/IFICDB reloaded with new data and search fields

NEWS 19 DEC 22 ABI-INFORM now available on STN

NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated and searchable

NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in CA/Caplus

NEWS 22 FEB 05 German (DE) application and patent publication number format changes

NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0b(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003

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STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

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=> S N-METHYL MORPHOLINE/CN

L1 0 N-METHYL MORPHOLINE/CN

L2 1 N-METHYL MORPHOLINE/CN

=> S CHLOROFORMATE

L3 1129 CHLOROFORMATE

=> FILE CAPLUS

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FILE 'CAPLUS' ENTERED AT 12:48:49 ON 20 FEB 2004

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FILE COVERS 1907 - 20 Feb 2004 VOL 140 ISS 9

FILE LAST UPDATED: 19 Feb 2004 (20040219/ED)

This file contains CAS Registry Numbers for easy and accurate

SINCE FILE ENTRY SESSION TOTAL

ENTRY SESSION TOTAL

13.71 13.92

substance identification.

=> S L2 1671 L2

=> S L3/RCT 39069 L3

L5 2596877 RCT/RL
19662 L3/RCT
(L3 (L) RCT/RL)

=> S L4 AND L5 93 L4 AND L5

=> S L6 AND ADD? 3086554 ADD?

L7 19 L6 AND ADD?

=> D 1-19 IBIB ABS

L7 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:633320 CAPLUS

DOCUMENT NUMBER: 139:180075

TITLE: Preparation of pyrrolopyrimidines as tyrosine kinase

INVENTOR(S): inhibitors

Hirst, Gavin C.; Calderwood, David; Munschauer,

Rainer; Arnold, Lee D.; Johnston, David N.; Rafferty,

Paul

PATENT ASSIGNEE(S): U.S. Pat. Appl. Publ., 166 pp., Cont.-in-part of Appl.

SOURCE: No. RCT/US99/21560.

DOCUMENT TYPE: Patent

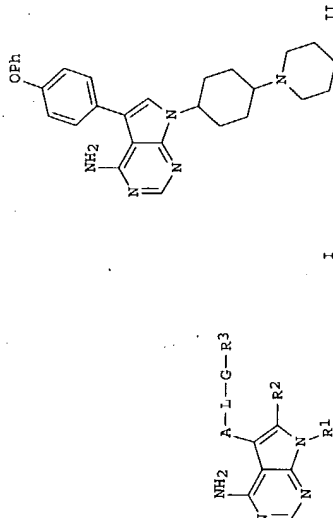
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2003153752	A1	20030814	US 2000-537167	20000329
WO 2000017203	A1	20000330	WO 1999-US21560	19990917
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NA, NZ, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RW, TD, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
ZA 2001002204	A	20020318	ZA 2001-2204	20010316
PRIORITY APPLN. INFO.:				
US 1998-100832P	P	19980918		
US 1998-100833P	P	19980918		
US 1998-100834P	P	19980918		
US 1998-100946P	P	19980918		
WO 1999-US21560	A2	19990917		
OTHER SOURCE(S):				
GI				



AB The title compds. I [A = (un)substituted 6-membered aromatic ring, 5-6 membered heteroarom. ring; L = O, S, SO, SO2, etc.; G = a direct bond, (CH2)j (wherein j = 1-6), alkenylene, cycloalkylene, oxoalkylene; R1 = alkyl, cycloalkyl, bicycloalkyl, etc.; R2 = H, alkyl, cycloalkyl, halo, etc.; R3 = alkyl, alkenyl, cycloalkyl, etc.] and physiol. acceptable salts and metabolites thereof, are inhibitors of serine/threonine and tyrosine kinase activity. Several of the kinases, whose activity is inhibited by compds. I, are involved in immunol., hyperproliferative, or angiogenic processes. Thus, the compds. I can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor. These compds. can be used to treat cancer and hyperproliferative disorders, rheumatoid arthritis, disorders of the immune system, transplant rejections and inflammatory disorders. All exemplified compds. I significantly inhibited either FGFR, PDGFR, KDR, Tie-2, Lck, Fyn, Btk, Lyn, or Src at <50 μM, and some significantly inhibited cdc2 at <50 μM. 546 Example preps. are included. For example, addition of piperidine to 4-[4-amino-5-(4-phenoxyphenyl)]-7H-pyrrolo[2,3-d]pyrimidin-7-ylcyclohexanone in DCE and AcOH, followed by treatment with Na[ACO3BH], workup and chromatog., gave cis- and trans-II.

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:97978 CAPLUS
DOCUMENT NUMBER: 138:1132624
TITLE: Influencing the activity of plant growth regulators
INVENTOR(S): Van der Krieken, Wilhelmus Maria; Smit, Gerrit
PATENT ASSIGNEE(S): Neth.
SOURCE: U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U.S. Ser. No. 717,872, abandoned.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2003027722	A1	20030206	US 2002-87024	20020228
US 6242381	B1	20010605	US 1998-981110	19980313
PRIORITY APPLN. INFO.:			US 1998-981110	A1 19980313
			US 2000-717872	B2 20001121
			EP 1995-201686	A 19950622

AB NL 1995-1109 A 19951109
WO 1996-0624 W 19960624
WO 1996-02789 W 19960289

The methods for increasing and/or prolonging *in vivo* or *in vitro* activity of plant growth regulators (PGRs) comprise locally increasing the concentration of active plant growth regulators in a plant and/or plant part (s) and/or increasing the sensitivity of the plant and/or plant part (s) to the activity of the plant growth regulators. The local increase can for instance take place by administering the PGRs in capsules. The increase in the sensitivity can be brought about by administering elicitors or means which result in the formation of elicitors, by adding both elicitors and (modified, e.g. slow-release) PGRs the induced response can be timed.

L7 ANSWER 3 OF 19
CAPLUS COPYRIGHT 2004 ACS on STN
2002:965135 CAPLUS
138:39298
DOCUMENT NUMBER:
TITLE:
Preparation of substituted (aminomino)methyl or
aminomethylidhydropyrazans and benzopyrazans as
factor Xa and factor IIa inhibitors
Burns, Christopher J.; Dankulich, William P.; McGarry,
Daniel G.; Volz, Francis A.
INVENTOR(S):
PATENT ASSIGNEE(S):
USA
SOURCE: U.S. Pat. Appl. Publ., 43 pp., Cont.-in-part of Appl.
No. PCR/IB00/01562.
CODEN: USXXCO
Patent
English
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002193410	A1	20021219	US 2002-81113	20020222
US 6599918	B2	20030729		
WO 2001043458	A2	20010301	WO 2000-1B1562	20000812
WO 200104358	A3	20010517		
W1:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, DE, DK, DM, DZ, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RO, RU, RW, SA, SG, SI, SK, SL, SM, SN, SR, ST, SU, SV, SY, SZ, TD, TH, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, AY, BG, BR, BY, BZ, CA, CH, CN, CR, CU, DE, DK, ES, FI, FR, GB, GR, IE, IL, LU, MC, NL, PT, SE, BF, BJ, CF, CI, CM, GA, GN, GW, GM, MR, NE, NP, SD, TD, TN, US, 1999-150767P, P. 19990826				
PRIORITY APPLN. INFO.:				

OTHER SOURCE(S) : MARPAT 138:39298
WO 2000-1B1562 A2 20000812
GB 1999-24133 A 19991012

$$\text{O} \begin{array}{c} \diagup \\ \diagdown \end{array} \begin{array}{c} \diagdown \\ \diagup \end{array} \text{L1-Q-L2-R}$$

The title compds. [I; n = 1 or 2; W is H or a ring system substituent; R is hydrogen, cyano, cycloalkyl, cycloalkenyl, cycloalkenyl, heterocyclyl, fused arylcycloalkyl, fused heterocyclylcycloalkyl, etc.; R1 is hydrogen, alkyl, aralkyl, heteroaralkyl, acyl, aryl, heteroaryl, alkoxyacarbonyl, arylalkoxyacarbonyl or heteroarylalkoxyacarbonyl; R2 and R3 are each hydrogen, or, taken together are :NR4; R5 is hydrogen, R5O2C, HO, cyano, R5CO, R5CO, HCO, lower alkyl, nitro, etc.; R4 is alkyl, aryl, heteroaryl, aralkyl, or heteroaralkyl; L1 is alkylene, alkenylene or alkenylene-O; L2 is absent, alkylene, alkenylene, alkenylene, alkylene-O, alkylene-O, etc. provided that when L2 is absent then R is not hydrogen, and Q is attached to R through a carbon atom thereof; Q is NR8; O CO, CO2, O2C, NR3(X)1, C(X)NR3, NR8C(X)O, etc.; provided that a nitrogen atom or oxygen atom of Q is not directly bonded to a carbon atom of L1 or L2 having a double bond or a triple bond, or Q-L2-R is cycloalkyl, cycloalkenyl, heterocyclyl, fused arylcycloalkyl, fused heterocyclylcycloalkyl, etc., provided that a nitrogen atom or oxygen atom of Q is not directly bonded to a carbon atom of L1 having a double bond or triple bond; X1 is O or S; R8 is hydrogen, alkyl, aralkyl, heteroaralkyl, acyl, aryl, heteroaryl or alkoxyacarbonyl; R8 is hydrogen, alkyl, aralkyl, heteroaralkyl, acyl, aryl or heteroaryl; and m is 0, 1 or 2]. oxides thereof, and pharmaceutically acceptable salts were prepared. These compds. inhibit the formation of simultaneously directly inhibiting both Factor Xa and Factor IIa (thrombin) and are useful for treating pathol. conditions in a patient that may be ameliorated by administration of such compds. The pathol. conditions include venous vasculature, arterial vasculature, abnormal thrombus formation, acute myocardial infarction, unstable angina, thromboembolism, acute vessel closure associated with thrombolytic therapy, percutaneous transluminal coronary angioplasty, transient ischemic attacks, stroke, intermittent claudication or bypass grafting of the coronary or peripheral arteries, vessel luminal narrowing, restenosis post coronary or venous angioplasty, maintenance of vascular access patency in longterm hemodialysis patients, pathol. thrombus formation occurring in the veins of the lower extremities following abdominal, knee and hip surgery, a risk of pulmonary thromboembolism, or disseminated systemic intravascular coagulopathy occurring in vascular systems during septic shock, certain viral infections or cancer (no data). Thus, To a cooled (0°) solution of 5-(pyrid-2-yl)thiophene-2-carboxylic acid and 4-methylmorpholine in CH2Cl2 is added dropwise a solution of iso-*pr*-chloroformate in toluene, stirred 30 min, treated with 2-[5-(N-tert-butoxycarbonyl)carbamimidoyl-2,3-dihydrobenzofuran-3-yl]ethylamine in DMF, and the reaction mixture was allowed to warm to room temperature overnight to give

5-pyridin-2-ylthiophene-2-carboxylic acid [2-[5-(N-tert-butoxycarbonyl)carbamimidoyl-2,3-dihydrobenzofuran-3-yl]ethyl]amide which was stirred with H2O and CF3CO2H in CH2Cl2 for 3 h to give 5-(pyridin-2-yl)thiophene-2-carboxylic acid [2-[5-(carbamimidoyl-2,3-dihydrobenzofuran-3-yl)ethyl]amide

L7 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 2002:251519 CAPLUS
 137:147981
 Design of peptides with α -D-glucaro

AUTHOR(S): Aliou-L-Ala-L-Leu-OCH₃
Makker, Jyoti; Dev, Sharmistha; Kumar, Pravindra;

DEPARTMENT OF BIOPHYSICS, ALL INDIA INSTITUTE OF
MEDICAL SCIENCES, ANSARI NAGAR, NEW DELHI, 110 029,
INDIA

PUBLISHER:
Communications (2002), C58(4), 0212-0214
CODEN: ACSCEB; ISSN: 0108-2701
Blackwell Munksgaard

LANGUAGE: English
AB The title peptide N-benzoyloxycarbonyl- Δ Leu-L-Ala-L-Leu-OCH₃ [methyl

N-(benzyl[oxycarbonyl]- α , β -dehydrostearyl-L-alanyl-L-leucinate], C24H38N2O6, was synthesized in the solution phase. Crystals, data are given. The peptide adopts a type II' β -turn conformation which is stabilized by an intramol. 4 \rightarrow 1 N-H...O H bond. The crystal packing is stabilized by two intermol. N-H...O H bonds. THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 13 RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L7 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:730744 CAPLUS
DOCUMENT NUMBER: 135:288790
TITLE:
PYRROLYPYRIMIDINES as tyrosine kinase inhibitors
Hirst, Gavin C.; Calderwood, David; Munschauer,
Rainer; Arnold, Lee D.; Johnston, David N.; Rafferty,
Paul
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: PCT Inc. Appl., 453 pp.
CODEN: PIXMD2
Patent
DOCUMENT TYPE: English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072751	A1	20011004	WO 2000-US8593	200000329
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CS, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MP, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BK, BU, CH, CN, CZ, CY, DE, DK, ES, FI, FR, GB, GR, IE, IL, LU, MC, NL, PT, SE, BF, BJ, CG, CL, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.				
MARPAT 135:288790				
OTHER SOURCE(S):				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Chemical compds. having structural formula I and physiol. acceptable salts and metabolites thereof, are inhibitors of serine/threonine and tyrosine kinase activity. Several of the kinases, whose activity is inhibited by these chemical compds., are involved in immunol., hyperproliferative, or angiogenic processes. Thus, these chemical compds. can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor. These compds. can be used to treat cancer and hyperproliferative disorders, rheumatoid arthritis, disorders of the immune system, transplant rejections and inflammatory disorders. All exemplified compds. significantly inhibited either FGFR, PDGFR, KDR, Tie-2, Lck, Fyn, Btk, Lyn, or Src at 450 μ M, and some significantly inhibited cdc2 at 550 μ M. In I, ring A is a six membered aromatic ring or a five or six membered heteroarom. ring which is optionally substituted. I is -O-, -S-, -S(O)-, -S(O)2-, -C(NR)-, -CH(NC(O)R)-, -N(C(O)R)-, -N(SO2R)-, -CH2S-, -CH2N(R)-, -CH2N(C(O)R)-, -CH2N(C(O)R)-, -CH2N(SO2R)-, -CH2N(CO(NH)R)-, -CH(NHC(O)R)-, -CH(NHC(O)R)-, -CH(NHC(O)R)-, -CH(COC(O)NHR)-, -CH(CO(NH)R)-, -N(R)S(O)-, -N(R)S(O)2-, -OC(O)N(R)-, -C(O)N(R)-, -N(R)C(O)-, -S(O)N(R)-, -S(O)2N(R)-, -N(C(O)R)S(O)-, -N(C(O)N(R)S(O)2-, -N(R)S(O)N(R)-, -N(R)S(O)2N(R)-, -C(O)N(R)C(O)-, -S(O)N(R)C(O)-, -S(O)2N(R)C(O)-, -OS(O)N(R)-, -N(R)S(O)O-, -N(R)S(O)2O-,

-N(R)S(O)(O)-, -N(R)S(O)2C(O)-, -SON(C)(OR)-, -SO2N[C](O)(R)-,
-N(R)S(ON)(R)-, -N(R)SO2N(R)-, -C(O)-, -N(R)P(OR')(OR'')-, -N(R)P(OR')-,
-N(R)P(O)(OR')-, -N(R)P(O)(OR'-), -N(C)(OR)P(OR')(OR'')-, -N(C)(OR)P(OR')-,
-N(C)(OR)P(O)(OR')-, -N(C)(OR)P(OR'')-, -CH(R)S(O)-, or -CH(R)S(O)2-. L
is also -CH(R)N(C)(OR)-, -CH(R)N(C)(OR)-, -CH(R)N(SO2R)-, -CH(R)O-,
-CH(R)S-, -CH(R)N(R)-, -CH(R)N(C)(OR)-, -CH(R)N(C)(OR)-, -CH(R)N(SO2R)-,
-CH(R)C-(NO2)-, -CH(R)C(O)-, -CH(R)CH(OR)-, -CH(R)C(O)N(R)-,
-CH(R)N(R)C(O)-, -CH(R)N(R)S(O)-, -CH(R)N(R)S(O)2-, -CH(R)OC(O)N(R)-,
-CH(R)N(C)(OR)S(O)-, -CH(R)N(C)(OR)C(O)-, -CH(R)S(O)N(R)-, -CH(R)S(O)2N(R)-,
-CH(R)N(C)(OR)S(O)-, -CH(R)C(O)N(R)S(O)2-, -CH(R)S(O)N(R)C(O)-,
-CH(R)S(O)2N(R)C(O)-, -CH(R)OS(O)N(R)-, -CH(R)OS(O)2N(R)-,
-CH(R)N(R)S(O)-, -CH(R)N(R)S(O)2-, -CH(R)N(R)S(O)C(O)-,
-CH(R)N(R)S(O)2C(O)-, -CH(R)SON(C)(OR)-, -CH(R)S(O)2N(C)(OR)-,
-CH(R)N(R)SON(R)-, -CH(R)N(R)S(O)2N(R)-, -CH(R)C(O)-, -CH(R)N(R)P(OR')(OR'')-,
-CH(R)N(R)P(OR')-, -CH(R)N(R)P(O)(OR')-, -CH(R)N(C)(OR)P(O)(OR'')-,
or -CH(R)N(C)(OR)P(OR')-. In L, each R and R' is, independently, -H,
acyl, substituted or unsubstituted aliphatic, aromatic, arylalkyl, heteroaryl,
cycloalkyl or arylalkyl; or L is -RN(R)S(O)2-, -RN(R)P(O)-, or
-RN(R)P(O)O-, wherein RB is an alkylene group which when taken together
bound forms a five or six membered ring fused to ring A; or L is II (X = O
or nil; Y = O or nil) or III (Y = O, nil) wherein R85 taken together with
the phosphonamide, or phosphonamide is a 5-, 6- or 7-membered, aromatic,
heteroaryl, or heterocycloalkyl ring system. G is a direct bond, -(CH2)j-
(j = 1-6), C2-C6-alkenylene, C3-C8-cycloalkylene or C1-C6-oxaalkylene
group. R1 is substituted, aromatic, heteroaryl, alkylamido, aryamido, -S(O)2-alkyl,
heterocycloalkyl, heterobicycloalkyl, cycloalkyl, heteroaryl, heteroalkyl,
cycloalkyl, cycloalkenyl, atomically substituted aliphatic, cycloalkyl,
-S(O)2-cycloalkyl, -C(O)alkyl, or -B-E, wherein B is substituted or
unsubstituted cycloalkyl, heterocycloalkyl, aromatic, heteroaryl, alkylene,
aminocetyl, alkynecarbonyl, or aminoalkylcarbonyl and E is substituted
or unsubstituted azacycloalkyl, azacycloalkyl, heteroaryl, heteroarylcarbonyl,
azacycloalkylsulfonyl, azacycloalkylalkyl, heteroaryl, heteroarylcarbonyl,
heteroarylsulfonyl, heteroarylalkyl, alkyl sulfonamido, aryl sulfonamido,
bicycloalkyl, ureido, thioureido or aryl. R2 is -H or substituted or
unsubstituted aliphatic, cycloalkyl, halogen, -OH, cyano, aromatic,
heteroaryl.

heterocycloalkyl, aralkyl, heteroaryl, -(CH2)0-3NR4R5, or
-(CH2)0-3C(O)NR4R5. R3 is substituted or unsubstituted aliphatic, alkenyl,
cycloalkyl, aromatic, heteroaryl, or heterocycloalkyl with provisos. R4, R5
and the N atom together form a 3-, 4-, 5- or 7-membered, substituted or
unsubstituted heterocycloalkyl, H, azabicycloalkyl or heteroaryl; or R4
and R5 are each, independently, -H, azabicycloalkyl or heteroaryl.
substituted or unsubstituted alkyl or Y-Z; Y is -C(O)-, -(CH2)p-, -S(O)2-,
-C(O)-, -SO2NH-, -CONH-, -(CH2)pO-, -(CH2)pNH-, -(CH2)pPS-, -(CH2)PS(O)-,
and -(CH2)PS(O)2; p = 0-6; and Z is -H, or substituted or unsubstituted
alkyl, amino, aryl, heteroaryl or heterocycloalkyl. 546 Example prepgs.
are included. For example, addition of piperidine to
4-[4-amino-5-(4-phenoxyphenyl)-7H-pyrrolo[2,3-d]pyrimidin-7-
yl]cyclohexanone in DCE and AcOH, followed by treatment with Na(AcO)3BH,
workup and chromatog., gave cis- and trans-IV.

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 2001:152865 CAPLUS
DOCUMENT NUMBER: 134:207826
TITLE:
Preparation of substituted (aminomethyl) or
aminomethyl)dihydrobenzofurans and benzopyrans as
factor Xa and factor XIa inhibitors
INVENTOR(S): Burns, Christopher J.; Dankulich, William P.; McGarry,
Daniel G.; Volz, Francis A.
PATENT ASSIGNEE(S): Aventis Pharmaceuticals Products Inc., USA

formation of simultaneously directly inhibiting both Factor Xa and Factor IIIa (thrombin) and are useful for treating pathol. conditions in a patient that may be ameliorated by administration of such compds. The pathol. conditions include venous vasculature, arterial vasculature, abnormal thrombus formation, acute myocardial infarction, unstable angina, peripheroembolism, acute vessel closure associated with thrombolytic therapy, peripheroembolism, transluminal coronary angioplasty, transient ischemic attacks, stroke, intermittent claudication or bypass grafting of the coronary or peripheral arteries, vessel luminal narrowing, stenosis post coronary or venous angioplasty, maintenance of vascular access patency in long-term hemodialysis patients, pathol. thrombus formation occurring in the veins of the lower extremities following abdominal, knee and hip surgery, a risk of pulmonary thromboembolism, or disseminated systemic intravascular coagulopathy occurring in vascular systems during septic shock, certain viral infections or cancer (no data). Thus, To a cooled solution of 5-(pyrid-2-yl)thiophene-2-carboxylic acid and 4-methylmorpholine in CH₂Cl₂ is added dropwise a solution of iso-Pr 2,3-dichloroformate in toluene, stirred 30 min. treated with 2,5-[5-(N-tert-butoxycarbonyl)carbamimidoyl]-2,3-dihydrobenzofuran-3-yl]ethylamine in DMF, and the reaction mixture was allowed to warm to room temperature overnight to give 5-pyridin-2-ylthiophene-2-carboxylic acid 12-[2,5-(N-tert-butoxycarbonyl)carbamimidoyl]-2,3-dihydrobenzofuran-3-yl]ethylamide which was stirred with H₂O and CF₃CO₂H in CH₂Cl₂ for 3 h to give 5-(pyridin-2-yl)thiophene-2-carboxylic acid 12-[5-(carbamimidoyl)-2,3-dihydrobenzofuran-3-yl]ethylamide.

L7 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:210172 CAPLUS
 DOCUMENT NUMBER: 132:251160
 TITLE: Preparation of pyrroloviridines as protein kinase

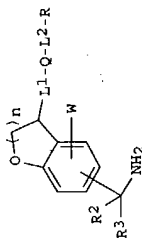
INVENTOR(S): Hirst, Gavin C.; Calderwood, David; Wishart, Neil;
Ritter, Kurt; Arnold, Lee D.
PATENT ASSIGNEE(S): Basf A.-G., Germany
SOURCE: PCT Int. Appl., 304 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

[illegible]

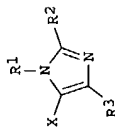
SOURCE: PCT Int. Appl., 107 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001014358	A2	20010301	WO 2000-1B1562	20000812
WO 2001014358	A3	20010517		
W:	AG, AL, AM, AR, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, DE, DK, DM, DO, EE, ES, FI, GB, GD, GE, GH, GM, GR, HT, HU, ID, IL, IN, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MN, MW, MY, NZ, PA, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, SV, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, GA, ZW, AM, BZ, BY, KG, KZ, MD, RU, TJ, TW, RW: GU, GM, KE, LS, MW, MZ, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GE, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, NE, NG, SN, TD, TG			
EP 1222182	A2	20020717	EP 2000-968181	20000812
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2004500336	T2	20040108	JP 2001-518445	20000812
US 2002193410	A1	20021219	US 2002-81113	20020322
US 6599918	B2	20030729	US 1999-150767P	P 19990826
PRIORITY APPLN. INFO.:			GB 1999-24155	A 19991012
			WO 2000-1B1562	W 20000812
OTHER SOURCE(S):				
			MARKPAT 134.207826	

OTHER SOURCE(S) :



The title compds. [I; n = 1 or 2; W is H or a ring system substituent; R is hydrogen, cyano, cycloalkyl, cycloalkenyl, heterocyclyl, fused heterocycloalkyl, fused heteroarylcycloalkyl, etc.; R1 is hydrogen, alkyl, aralkyl, heteroaralkyl, acyl, aroyl, heteroaryl, alkoxy-carbonyl, arylalkoxy-carbonyl or heteroarylalkoxy-carbonyl; R2 and R3 are each hydrogen, or, taken together are NR4; R4 is hydrogen, RS02C, HO, cyano, RSOC, HCO, lower alkyl, nitro, etc.; R5 is alkyl, aryl, heteroaryl, aralkyl, or heteroaralkyl; L1 is alkylene, alkenylene or alkyneylene; L2 is absent, alkylene, alkenylene, alkyneylene, alkylene-O, alkyneylene-O, etc.; provided that when L2 is absent, then R is not hydrogen, and Q is attached to R through a carbon atom thereof; Q is NR8', O, CO, CO2, NR8' (X1), C(X)(NR8')O, etc.]; provided that a nitrogen atom or oxygen atom of Q is not directly bonded to a carbon atom of L1 or L2 having a double bond or triple bond, or Q-L2-R is cycloalkyl, cycloalkenyl, heterocyclyl, fused heterocycloalkyl, fused heteroarylcycloalkyl, etc., provided that a nitrogen atom or oxygen atom of Q is not directly bonded to a carbon atom of L1 having a double bond or triple bond; X1 is O or R8' is hydrogen, alkyl, aralkyl, heteroaralkyl, acyl, aroyl, heteroaryl or alkoxy-carbonyl; R8 is hydrogen, alkyl, aralkyl, heteroaralkyl, acyl, aroyl or heteroaryl; and m is 0, 1 or 2; oxides thereof, pharmaceutically acceptable salts, solvates thereof, or prodrugs thereof are prepared. These compds. inhibit the



AB A process for producing compds. of general formula (I; X = R4S; wherein R1 and R3 each represents a hydrogen atom or an organic residue; R2 represents an organic residue; and R4 represents a substituted or unsubstituted aryl group) comprises reacting a compound of general formula I (R = H, wherein R1, R2 and R3 are each as defined above), with a compound of general formula R4-S-Hal (wherein R4 is as defined above; and Hal represents a halogen atom), in the presence of a base. This process is suitable for manufacturing antiviral or anti-AIDS imidazole derivs. (no data) in a large scale at low cost. Thus, a solution of 8.0 g 3,5-dichlorobenzene-sulfonyl chloride in toluene was added dropwise to a solution of 10.0 g I (X = H, R1 = 4-pyridinylmethyl, R2 = CH2OCH2Ph, R3 = iso-Pr) in toluene under ice-cooling over 30 min followed by adding dropwise Et3N over 1 h under ice-cooling and the resulting mixture was stirred at the same temperature for 1.5 h to give 81.3% I (X = 3,5-dichlorobenzene-sulfonyl, R1 = 4-pyridinylmethyl, R2 = CH2OCH2Ph, R3 = iso-Pr).

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 199819217 CAPLUS
 DOCUMENT NUMBER: 128313498
 TITLE: Solution behavior and zinc complexation of tripeptides with cysteine and/or histidine at both termini
 AUTHOR(S): Gockel, P.; Gelinsky, M.; Vogler, R.; Vahrenkamp, H.
 CORPORATE SOURCE: Institut für Anorganische und Analytische Chemie der Universität Freiburg, Freiburg, 79104, Germany
 SOURCE: Inorganica Chimica Acta (1998), 272(1,2), 115-124
 CODEN: ICHAA3; ISSN: 0020-1693
 PUBLISHER: Elsevier Science S.A.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Eight tripeptides and one tetrapeptide with cysteine and/or histidine at both termini were synthesized. They were fully protected (acetyl at the N terminus and ester or amide at the C terminus), making cysteine thiolate and histidine imidazole the only donor functions. The central amino acids (valine, proline, and the nonnatural amino acid (S)-3-amino-2-oxo-1N-pyrrolidineacetic acid, Aps) were chosen such that they support or strongly favor a folding of the peptide chain in this position. Potentiometric measurements showed that all these peptides form 1:1 Zn complexes in solution and that the bis-cysteine peptides also form 2:2 complexes. In these complexes the peptide is a chelating ligand forming 12- to 17-membered chelate rings. A comparative discussion of complex stabilities reveals that the peptides containing valine in the central position do not provide addnl. stability to their Zn complexes by protein folding, e.g. by a β -turn. Proline, and more pronouncedly the nonnatural amino acid Aps, however, exert this type of complex stability enhancement by preorganization.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1997324318 CAPLUS
 DOCUMENT NUMBER: 12717282

TITLE: Kinetics of 5-exo Cyclizations of N-Alkyl-4-pentenamyl Radicals and β -Fragmentations of β -(Dialkylamino)alkyl Radicals
 AUTHOR(S): Newcomb, Martin; Musa, Osama M.; Martinez, Felix N.; Horner, John H.
 CORPORATE SOURCE: Department of Chemistry, Wayne State University, Detroit, MI, 48202, USA
 SOURCE: Journal of the American Chemical Society (1997), 119(20), 4569-4577
 CODEN: JACSAT; ISSN: 0002-7863

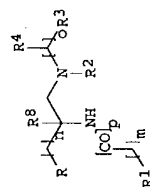
PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 127:17282
 AB The kinetic conclusions of a recent report by Maxwell and Tsanaktsidis (J. Am. Chemical Society 1996, 118, 4276) were investigated. The kinetics of ring opening of the (N-butyl-2-pyrrolidinyl)methyl radical (2) to the N-butyl-4-pentenamyl radical (1) and the reverse reaction, 5-exo cyclization of 1 to 2, were determined at 50 and 80 °C by competitive Bu3SnH trapping. Rate constants for 5-exo cyclization of a dialkylamyl radical and for β -fragmentation of a β -(dialkylamino)ethyl radical were measured by direct laser flash photolysis (LFP) methods. In contrast to the conclusions of Maxwell and Tsanaktsidis, all of these radical reactions were facile with rate constants of at least 1×10^4 s⁻¹. The claim by Maxwell and Tsanaktsidis that bis(tributyltin oxide) catalyzes dialkylamyl radical reactions was investigated by LFP kinetic studies of the 5-exo cyclization of the N-methyl-5,5-diphenyl-4-pentenamyl radical (20) in the presence of the additive which demonstrated that (Bu3Sn)2O does not have a catalytic effect on the reaction. Computations of the energies of the N-Me analogs of radicals 1 and 2 with a high level of theory (fourth-order Moller-Plesset perturbation theory) and by a hybrid d. functional theory with a very large basis set indicate that the cyclization reaction is expected to be slightly exergonic at 298 K. This work demonstrates that the kinetic results reported by Maxwell and Tsanaktsidis were spurious. We speculate that impurities of dichalcogens in their radical precursor samples were reduced by Bu3SnH to highly reactive chalcogen hydrides (aryltiols and benzeneselenol) in their kinetic studies.

L7 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1997299224 CAPLUS
 DOCUMENT NUMBER: 126277498
 TITLE: Preparation of 2-piperazino(or piperidino)acetylamino propanamines as growth hormone secretagogues
 INVENTOR(S): Dodge, Jeffrey Alan; Hipskind, Philip Arthur
 PATENT ASSIGNEE(S): Eli Lilly and Co., USA
 SOURCE: Eur. Pat. Appl., 107 pp.
 CODEN: EPXDXW

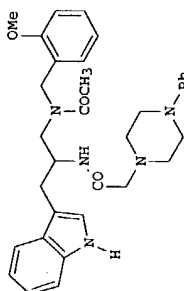
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 761219	A1	19970312	EP 1996-305917	19960814
R: AT, BE, CH, DE, DK, ES, FI, FR, GE, GR, IE, IT, LI, LU, NL, PT, SE				
CA 2203424	AA	19970227	CA 1996-2203424	19960814
WO 9707117	WO	19970227	WO 1996-US13193	19960814
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CU, CZ, DE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, CN, GM, GN, ML, MR, RW, KE, LS, MW, SD, SZ, UG, BF, BJ, CF, CG, CI, CM, GW, GN, ML, MR,				

NE, SN, TD, TG
 AU 9657244 A1 19970312 19960814
 ZA 9604891 A 19980216 19960814
 PRIORITY APPLN. INFO.:
 US 1995-2581P P 19950821
 WO 1996-US13193 W 19960814
 OTHER SOURCE(S):
 MARPAT 126:277498
 GI



I

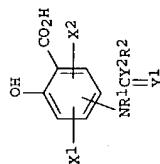


II

AB The title compds. [I; m, n, p = 0-1; o = 0-2; R = Ph, 2-indolyl, benzothienyl, etc.; R1 = Ph3C, Ph, Ph2CH, etc.; R2 = H, Cl-4 alkyl, arylsulfonyl, etc.; R3 = Ph, naphthyl, Cl-8 alkyl, etc.; R4 = H, Cl-3 alkyl; R8 = H, Cl-6 alkyl], useful in treating a physiolo. condition which may be modulated by an increase in growth hormone, were prepared and formulated. Thus, treatment of 2-[(4-phenyl)piperazin-1-yl]acetic acid sodium salt with Et3N.HBr and carbonyldiimidazole in DMF followed by addition of 2-amino-3-(4H-indol-3-yl)-1-[N-(2-methoxybenzyl)amino]propane in DMF afforded the title compound II. Compds. I are effective at 1-15 mg/kg/day. This invention also provides methods for the treatment of such physiolo. conditions which comprise administering a growth hormone secretagogue as described in the present invention in combination with growth hormone releasing hormone.

L7 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2004 ACS ON STN
 ACCESSION NUMBER: 1996:401591 CAPLUS
 DOCUMENT NUMBER: 125:58125
 TITLE: Preparation of alkoxy-carbonylaminosalicylic acids as developers for recording materials
 INVENTOR(S): Nakatsuka, Masakatsu; Umeda, Shinichi; Takaoka, Masazumi; Mizuta, Hideki; Nagata, Teruyuki
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 9218490 A1 19921029 WO 1992-EP809 19920409
 EP 535192 A1 19930407 EP 1992-908147 19920409
 EP 535192 B1 19960619
 R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL
 JP 0508167 T2 19931118 JP 1992-507648 19920409
 AT 139532 E 19960715 AT 1992-908147 19920409
 US 5294609 A 19940315 US 1992-952537 19921209
 US 5399741 A 19950321 US 1994-177483 19940106
 US 5486466 A 19960123 US 1994-339442 19941114
 PRIORITY APPLN. INFO.:
 EP 1991-106105 19910417
 WO 1992-EP809 19920409
 US 1992-952537 19921209
 US 1994-177483 19940106
 OTHER SOURCE(S):
 MARPAT 119:117285
 GI

JP 08092195 A2 19960409 19940927
 JP 3313248 B2 20020812
 PRIORITY APPLN. INFO.:
 JP 1994-231596 19940927
 CASREACT 125:58125; MARPAT 125:58125
 OTHER SOURCE(S):
 GI



I

AB The title compds. I [X1, X2 = H, alkyl, etc.; Y1, Y2 = O, etc.; R1 = H, alkyl, etc.; R2 = alkyl, etc.] are prepared by reaction of aminosalicylic acid derivs. with haloformates in the presence of trialkylamine. Thus, octyl chloroformate 193 g was added over 2 h to a solution of 4-aminosalicylic acid 153 g in methanol 560 g containing triethylamine 110 g at 15°. The resulting mixture was stirred at 20° for 20 min. Water 1200 g and concentrated HCl 30 g were added to the reaction mixture; crystals of 4-(octyloxy-carbonyl-amino)salicylic acid 300 g were obtained (yield 97%), vs. 48% yield in a reference process.

L7 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS ON STN
 ACCESSION NUMBER: 1993:517285 CAPLUS
 DOCUMENT NUMBER: 119:117285
 TITLE: Preparation of benzoxathiazabicyclododecines as novel DNA gyrase inhibitors
 INVENTOR(S): Arisawa, Mikio; Goetschi, Erwin; Kamiyama, Tsutomu; Masciadri, Raffaele; Shimada, Hisao; Watanabe, Junko; Hebeisen, Paul; Link, Helmut
 PATENT ASSIGNEE(S): Hoffmann-La Roche, F., and Co. A.-G., Swiss.
 SOURCE: PCT Int. Appl., 164 pp.
 CODEN: FIKXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 9218490 A1 19921029 WO 1992-EP809 19920409
 EP 535192 A1 19930407 EP 1992-908147 19920409
 EP 535192 B1 19960619
 R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL
 JP 0508167 T2 19931118 JP 1992-507648 19920409
 AT 139532 E 19960715 AT 1992-908147 19920409
 US 5294609 A 19940315 US 1992-952537 19921209
 US 5399741 A 19950321 US 1994-177483 19940106
 US 5486466 A 19960123 US 1994-339442 19941114
 PRIORITY APPLN. INFO.:
 EP 1991-106105 19910417
 WO 1992-EP809 19920409
 US 1992-952537 19921209
 US 1994-177483 19940106
 OTHER SOURCE(S):
 MARPAT 119:117285
 GI

be fused to form a ring (CH₂)₂NR₈(CH₂)₂NR₈(CH₂)₂); n = 0-10; g, r, s, t, u, v = 2, 3; substrate conjugates II (Q = substrate; X = substrate reactive moiety; all else as above), and substrate-metal ion conjugates III (M = metal; all else as above) are prepared for in vivo diagnostic imaging and therapy. N-(Carboxymethyl)-N-[2-(bis(carboxymethyl)amino)ethyl]-4-isothiocyanatophenylalanine dihydrochloride (preparation described) (0.34 g) was reacted with 0.39 g N-(t-butoxycarbonyl)thylendiamine (preparation described) and triethylamine in DMF at 0° for 15 min and room temperature for 48 h. H₂O was then added and the mixture was stirred for 6 h and evaporated. The residue was chromatographed on Bio-Rad AGI-X4 (elution with 3.5 M CH₂O₂ followed by 7 M CH₂O₂), deprotected with trifluoroacetic acid at room temperature for 6 h, and chromatographed on the same column (elution with CH₂O₂ 1, 2, 3, 4 M). Yielding 0.14 g N-(carboxymethyl)-N-[2-(bis(carboxymethyl)amino)ethyl]-[4-(N'-(2-aminoethyl)thioureaphenyl)alanine-3HCl] (IV). A cholic acid-EDTA-IV conjugate was formed by reacting 31 mg IV with 25.5 mg cholic acid ester (prepared by reacting cholic acid with N-hydroxysuccinimide, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide-HCl and triethylamine) and 36 mg triethylamine for 6 days at room temperature. The residue was chromatographed on the same material as above (elution with 5M CH₂O₂), treated with 4M HCl 4°, dissolved in H₂O and, lyophilized. This conjugate was labeled with ¹¹¹In and used to image the hepatobiliary system in rabbits. The conjugate (0.59 mL, 1.69 mCi/mL) was injected into the ear vein of female New Zealand rabbits. At 10 min post-injection, the liver showed intense uptake of the conjugate, with no observable activity remaining in the level after 1 h.

L7 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 1989:584095 CAPLUS
DOCUMENT NUMBER: 111:184095

TITLE: Silver halide photographic material having ultra-high

INVENTOR(S): Kato, Kazunobu; Yagihara, Morio; Okada, Hisashi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JPKXAF

DOCUMENT TYPE: Patent

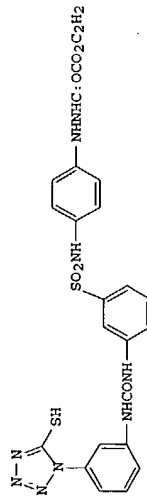
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01090439	A2	19890406	JP 1987-247478	19870930
JP 0603082	B4	19941116	JP 1987-247478	19870930

PRIORITY APPLN. INFO.: GI



I

AB The claimed photog. material having 21 Ag halide emulsion layer(s) contains in the emulsion layer and/or in other hydrophilic colloid layer NR₁NR₂C(OCOR₃) (R = aliphatic, aromatic or heterocyclic group; both of R₁ and R₂ are H, or one is H and the other is sulfonic acid residue, acyl; R₃ = NR₄R₅, OR₆; R₄, R₅ = H, alkyl, alkenyl, aryl, amino, heterocyclic ring; R₆

and R₅ may be combined to form a ring; R₆ = H, alkyl, alkenyl, aryl, heterocyclic ring; either of R and R₃ has a substituent capable of adsorbing to the Ag halide). The compound is a photog. highly active hydrazone derivative and provides a developed image with high contrast of $\times 10$, by using a developer of relatively low pH, such as 10. Thus, compound I was added to a AgCl emulsion (monodispersed, 0.2 μ m in average diameter, cubic, crystallized in the presence of (NH₄)₃RbCl₆, then

the emulsion was coated on a substrate to make a graphic arts film. Upon development with a methyl-hydroquinone-sulfide developer of pH 11.6, it showed the mentioned characteristics.

L7 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1988:37814 CAPLUS

DOCUMENT NUMBER: 108:37814

TITLE:

Process for producing octahydro[1,7a]propanoindolo[2,3-a]quinolizine derivatives and acid addition salts as anticonvulsants, antihypoxic, antipyretic and antitachycardic drugs

INVENTOR(S): Szantay, Csaba; Balogh Kardos, Zsuzsanna; Palosi, Eva;

PATENT ASSIGNEE(S): Incze, Maria; Soti, Ferenc; Szporny, Laszlo

SOURCE: Richter, Gedeon, Vegyeszeti Gyar Rt., Hung.

CODEN: HUXXEU

DOCUMENT TYPE: Patent

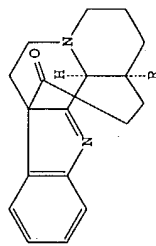
LANGUAGE: Hungarian

FAMILY ACC. NUM. COUNT: 1

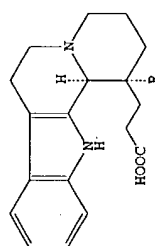
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 38947	A2	19860728	HU 1984-4781	19841221
HU 192648	B	19870629	HU 1984-4781	19841221

PRIORITY APPLN. INFO.: GI



I



II

AB The title compound I (R = Cl-4 alkyl) or pharmaceutically acceptable salts are prepared by conversion of the corresponding acid II into a mixed anhydride in an inert solvent under cooling in the presence of an acid scavenger, followed by internal acylation by heating. A mixture of II (R = Et), N-methylmorpholine, and THF, cooled to -5°, was treated with ClCO₂Et and stirred overnight at room temperature, to give I (R = Et). No

pharmacol. data are given.

L7 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1982:158744 CAPLUS
DOCUMENT NUMBER: 96:158744
TITLE: Studies on the metabolism of unsaturated fatty acids.

AUTHOR(S): V. Isomerization of thiol esters of cis-2-alkenoic acids during their preparation and alkaline hydrolysis Mizugaki, Michinao; Ito, Yoko; Hoshino, Yoshiaki; Shirashi, Takayuki; Yamana, Hiroshi
CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1982), 30(1), 205-13
CODEN: CPBTLJ; ISSN: 0009-2353
JOURNAL

DOCUMENT TYPE: English

LANGUAGE: English

AB N-Acetylcysteine and CoA esters of cis-2-alkenoic acids underwent isomerization to the corresponding trans-isomers during their preparation by the mixed anhydride method and also during their alkaline hydrolysis. The isomerization might proceed by interaction of the free SH group and the cis-double bond of 2-alkenoic thiol esters. The use of pyridine as a base and 23 equiv of the mixed anhydride to the thiol compound prevented the formation of the trans-isomer. Addition of H₂O₂ during alkaline hydrolysis also prevented the isomerization completely.

=> S L4 AND MIXED
708716 MIXED
6 MIXEDS
708720 MIXED
(MIXED OR MIXEDS)
L8 148 L4 AND MIXED

=> S L8 AND CARBOXYLIC
214406 CARBOXYLIC
47 CARBOXYLIC
214424 CARBOXYLIC
(CARBOXYLIC OR CARBOXYLIC)
L9 16 L8 AND CARBOXYLIC

=> D 1-16 ISIB ABS

L9 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:242219 CAPLUS
DOCUMENT NUMBER: 138:264909
TITLE: Generation of ion exchanger media
INVENTOR(S): Maloisel, Jean-Luc; Thevenin, Nicolas
PATENT ASSIGNER(S): Amersham Biosciences AB, Swed.
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2003024588 A1 20030327 WO 2002-SEI650 20020912
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, IL, IN, IS, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: SE 2001-3084 A 20010914
SE 2002-1145 A 20020515

AB The present invention relates to a method of generating a separation medium comprising mixed mode cation-exchanger ligands coupled to a base matrix, which method comprises to provide a scaffold comprising a functional group and exhibiting a cyclic core structure, derivatize the scaffold with a reagent comprising a reactive group coupled to a residue R by reacting the functional group of the scaffold with said reactive group; open the cyclic structure of the resulting derivative; and react the product with a base matrix comprising a re-active group. The scaffold presents at least two functionalities; one sulfur-comprising group for coupling to the base matrix and one group that can be transformed into an ionic group.
REFERENCE COUNT: 3
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:117789 CAPLUS

DOCUMENT NUMBER: 138:155355

TITLE: Process for producing acid anhydride having high yield and purity

INVENTOR(S): Shiigi, Hirofumi; Ohshima, Eiji; Yamaguchi, Masao

PATENT ASSIGNER(S): Tokuyama Corporation, Japan

SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2003011818 A1 20030213 WO 2002-JP7461 20020724
W: CN, IN, KR, US
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR
JP 2003048661 A2 20030221 JP 2001-233382 20010801
JP 2004035523 A2 20040205 JP 2002-198475 20020708
JP 2001-233382 A 20010801
JP 2002-198475 A 20020708
PRIORITY APPLN. INFO.: MARPAT 138:155355

OTHER SOURCE(S):
AB A process for producing an acid anhydride which comprises reacting a carboxylic acid, preferably one having a polymerizable group, with a sulfonyl halide compound in the presence of a tertiary amine or of a tertiary amine and an inorg. base, characterized in that the tertiary amine or the tertiary amine and inorg. base are used in an amount of 0.9 to 1.2 equiv to the acid to be generated from the sulfonyl halide compound. Thus acrylic acid anhydride prepared in a 4-neck 3-L glass reactor comprising methylene chloride 1240 g, inhibitors, acrylic acid 3.0 mol, methanesulfonyl chloride 1.5 mol; mixed with triethylamine 3.0 mol (added dropwise in 2 h) at 30° had a yield of 91% and 98% purity, compared to 79% and 74%, resp., for a similar preparation using 4.5 mol of triethylamine.
REFERENCE COUNT: 3
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:548280 CAPLUS

DOCUMENT NUMBER: 136:110425

TITLE: Deacidification of oils and fats of biological origin by aqueous solutions of tertiary amines
AUTHOR(S): Peter, Siegfried; Drescher, Martin; Konig, Wolfgang;

WEIDNER, Eckhard
Institut für Technische Chemie, Universität
Erlangen-Nürnberg, Erlangen, Germany
Oleagineux, Corps Gras, Lipides (2001), 8(1), 53-56
CODEN: OCLQEX; ISSN: 1258-8210
PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
AB Deacidification of triacylglycerols by extraction is investigated using aqueous
sols. of amines as extractants. Tertiary amines with b.p. ranging
between 100° and 170°C such as 2-methylamino-1-dimethylamino-2-propanol
2-dimethylamino-ethanol, 4-methylmorpholine, 1-dimethylamino-2-propanol
etc. were found to be suitable substances. Especially the deacidification by
aqueous sols. of 2-dimethylamino-ethanol (DMAE) was amply investigated as it
is used as an active agent in remedies. Amazingly gelatinous soap stocks
are not formed, when the concentration of DMAE exceeds 20% if the free fatty
acid content of the oil is below 15%. Two liquid phases are formed in systems
composed of triacylglycerols and aqueous sols. containing 20 to 80% DMAE.
Palm
oil containing 4.3 weight% free fatty acids was mixed with an equal
amount of an aqueous solution of 30 weight% DMAE at 60°C. In equilibrium an
extract
containing 86 weight% free fatty acids (solvents deducted) and a raffinate of
0.09 weight% free fatty acids are obtained. Loss of neutral oil being 0.7
weight%.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
134:271718
Redox and Double-Layer Charging of Phenothiazine
Functionalized Monolayer-Protected Clusters
Miles, Deon T.; Murray, Royce W.
Kenan Laboratories of Chemistry, University of North
Carolina, Chapel Hill, NC, 27599-3290, USA
SOURCE:
ANALYTICAL CHEMISTRY (2001), 73(5), 921-929
CODEN: ANCHAM; ISSN: 0003-2700
PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
AB Monolayer-protected Au clusters (MPCs) have been prepared with mixed
monolayers of alkanethiols and alkanethiols terminally
a-functionalized with phenothiazine. The mixed monolayer
MPCs can contain as many as 10 phenothiazines/MPC; these electron donors
are electroactive in rapid, successive one-electron reactions. Surface
adsorption of the functionalized MPCs is evident in cyclic voltammetry.
Double-potential-step chronocoulometry with incremented potential steps
was applied to unfunctionalized hexanethiolate-coated MPCs and to those
functionalized with phenothiazine to analyze the coupling between the
diffusion-controlled double-layer charging of the MPC cores and the oxidation
of the phenothiazine centers. Apparent changes in ordering of the MPC
alkanethiolate chains were observed with IR spectroscopy in sols. of MPCs
where alc., carboxylic acid, or phenothiazine moieties had been
incorporated into the monolayer.

REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
133:89948
One shot process for preparing polyurethane foam using
a aryloxy-substituted carboxylic
acid-blocked tertiary amine catalyst

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
El Ghobary, Hassan; Muller, Louis
CK Witco Corporation, USA
Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
EP 1018526 A1 20000712 EP 1999-125986 19991228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
US 6660781 B1 20031209 US 1999-225550 19990105
JP 2000204135 A2 20000725 JP 2000-18 20000104
KR 2000053377 A 20000825 KR 2000-119 20000104
CN 1267674 A 20000927 CN 2000-104550 20000105
MX 20000238 A 20030308 MX 2000-238 20000105
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
AB A one-shot foaming process for preparing a polyurethane foam by a
polyisocyanate and an active hydrogen-containing component including water and
an organic polyol, is conducted in the presence of a delayed action catalyst
formed by reaction between a tertiary amine and an aryloxy-substituted
carboxylic acid. Thus, polyols, TDI 80/20, are mixed
with diethanolamine and phenoxycetic acid to form a polyurethane foam
with a d. of 35.8 kg/m³.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
133:89947
One-shot process for preparing polyurethane foam using
a halogenated carboxylic acid-tertiary amine
catalyst
El Ghobary, Hassan; Muller, Louis
CK Witco Corporation, USA
Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
EP 1018525 A1 20000712 EP 1999-125985 19991228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
US 6395796 B1 20020328 US 1999-225549 19990105
JP 2000204134 A2 20000725 JP 2000-17 20000104
KR 2000053374 A 20000825 KR 2000-107 20000104
CN 1269372 A 20001011 CN 2000-104505 20000105
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
AB A one-shot process for preparing a polyurethane foam by a polyisocyanate and
an active hydrogen-containing component including water and an organic polyol,
conducted in the presence of a delayed action catalyst formed by reaction
between a tertiary amine and a halogenated carboxylic acid
having optional hydroxyl functionality. Thus, polyols and TDI 80/20 are
mixed diethanolamine and 2-chloropropionic acid to form a
polyurethane foam with a cream time of 7 s, an exit time of 32 s, a d. of

35.9 kg/m³, a force-to-crush of 157 N, and an indentation load deflection of 522 N.

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

1999:222724 CAPLUS

131:39206

Chloric Acid Analogs as HIV-1 Integrase Inhibitors

AUTHOR(S): Lin, Zhaiwei; Neamat, Nouri; Zhao, He; Kiryu, Yoshimasa; Turpin, Jim A.; Aherhan, Claudia; Strebel, Klaus; Kohn, Kurt; Witvrouw, Myriam; Pannecouque, Christophe; Debeyer, Zeger; De Clercq, Erik; Rice, William G.; Fommier, Yves; Burke, Terrence R., Jr. Laboratory of Medicinal Chemistry Division of Basic Sciences, National Cancer Institute, Bethesda, MD, 20892, USA

SOURCE: Journal of Medicinal Chemistry (1999), 42(8), 1401-1414

CODEN: JMCWAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The present study was undertaken to examine structural features of L-chloric acid which are important for potency against purified HIV-1 integrase and for reported cytoprotective effects in cell-based systems. Through a progressive series of analogs, it was shown that enantiomeric D-chloric acid retains inhibitory potency against purified integrase equal to its L-counterpart and further that removal of either one or both carboxylic functionalities results in essentially no loss of inhibitory potency. Adn1., while two cafeeoyl moieties are required, attachment of cafeeoyl groups to the central linking structure can be achieved via amide or mixed amide/ester linkages. More remarkable is the finding that blockage of the catechol functionality through conversion to tetraacetate esters results in almost no loss of potency, contingent on the presence of at least one carboxyl group on the central linker. Taken as a whole, the work has resulted in the identification of new integrase inhibitors which may be regarded as bis-cafeeoyl derivs. of glycidic acid and amino acids such as serine and β -aminoalanine. The present study also examined the reported ability of chloric acid to exert cytoprotective effects in HIV-infected cells. It was demonstrated in target and cell-based assays that the chloric acids do not significantly inhibit other targets associated with HIV-1 replication, including reverse transcription, protease function, NCP7 zinc finger function, or replication of virus from latently infected cells. In CEM cells, for both the parent chloric acid and selected analogs, antiviral activity was observable under specific assay conditions and with high dependence on the multiplicity of viral infection. However, against HIV-1- and HIV-2-infected MT-4 cells, the chloric acids and their tetraacetylated esters exhibited antiviral activity (50% effective concentration (EC50) ranging from 1.7 to 20 μ M and 50% inhibitory concentration (IC50) ranging from 40 to 60 μ M). THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS

REFERENCE COUNT: 44

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

1998:760703 CAPLUS

130:89609

Synthesis, characterization and thermal studies of

AUTHOR(S): nickel(III), copper(II), zinc(II) and cadmium(II) complexes with some mixed ligands

Mitra, Samiran; Kundu, Parimal; Singh, Rajkumar Bhupen

Department of Chemistry, Jadavpur University, Calcutta, 700 032, India

SOURCE:

Indian Journal of Chemistry, Section A: Inorganic, Bio-Inorganic, Physical, Theoretical & Analytical Chemistry (1998), 37A(8), 743-746

CODEN: ICACSC; ISSN: 0376-4710

PUBLISHER: National Institute of Science Communication, CSIR

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Mixed-ligand complexes were prepared of Ni(II), Cu(II), Zn(II) and Cd(II) containing dichloroacetate (DCA) or trichloroacetate (TCA) and cyclic chelate ligand morpholine (Morph), thiomorpholine (Thiomorph), N-methylmorpholine (Nmorph), or N,N'-dimethylpiperazine (DMP). The complexes are [Ni(Morph)₂(DCA)₂], [Ni(Thiomorph)₂(TCA)₂], [Ni(Morph)₂(TCA)₂], [Cu(DMP)₂(TCA)₂], [Mn(X)₂.nH₂O where M = ZnII or CdII, L = Morph, DMP or Thiomorph and X = DCA or TCA and n = 0, except in the case of [Cd(Morph)₂(TCA)₂] where n = 1. Some intermediate complexes were isolated by temperature arrest technique (pyrolysis) and characterized. Configurational and conformational changes were studied. The complexes were analyzed by elemental anal., IR and electronic spectra, magnetic moment data (in the case of Ni(II) and Cu(II) complexes) and thermal anal. Ea*, AH and AS for the decomposition reaction of these complexes were evaluated and the stability of the complexes with respect to activation energy also were compared. A linear correlation was found between Ea* and AS for the decomposition of the complexes.

REFERENCE COUNT: 22

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

1996:457779 CAPLUS

125:88100

Photocrosslinkable resin compositions and their

manufacture

PATENT ASSIGNEE(S): W. R. Grace & Co., USA

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JXXXXF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 08109232 A2 19960430 JP 1994-227961 19940922

PRIORITY APPL. INFO.: JP 1994-227961 19940922

AB A photocrosslinkable resin composition comprises (1) a quaternary ammonium group-containing unsatd. ester obtained by reacting a compound having α epoxy group with a carboxylic acid containing ethylenic group to partially convert the epoxy groups to ester groups followed by reacting with an aliphatic tertiary amine in an alc. solvent and (2) photopolymer. The composition is suitable for solder-resist and can be developed with water. Thus YDCN 702 (creosol novolak epoxy resin) was reacted with acrylic acid and then with N,N-dimethylethanamine; the product was then mixed with Irgacure 907 and diethyloxanthone, an amino resin or a blocked isocyanate, and a hardening catalyst to give a title composition

L9 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

1995:974893 CAPLUS

124:176424

Synthesis of novel alkynyl-substituted iron acyl and

carbene complexes via mixed anhydrides

Rueck-Braun, Karola; Kuehn, Joerg

Inst. Organische Chemie, Johannes Gutenberg-Univ., Mainz, D-55099, Germany

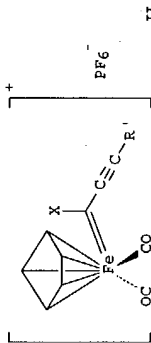
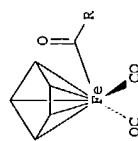
SOURCE: Synlett (1995), (11), 1194-6

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Thieme

DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
G1

Journal
English
CASREACT 124:176424



AB The synthesis of novel (alkynyl)-substituted Fe acyl complexes I [R = (E)-CH₂CHCO₂Et, OMeCH₂, (E,E)-CH:CHCH:CHCH₃, C.tpbond.CpH, C.tpbond.CSiMe₃] was achieved from [Cp(CO)₂Fe]₂ via treatment with a mixed anhydride procedure starting from the carboxylic acids, RCO₂H. (Alkynyl)methoxycarbene cationic complexes II (X = OMe, R' = SiMe₃, Ph) were prepared from I and (MeO)₂CH+ PF₆⁻. Aminolysis of methoxycarbene II (X = OMe) gave stabilized aminocarbene complexes II (e.g., X = NHPh, R' = SiMe₃, from aniline).

L9 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
121:157147
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

1994:557147 CAPLUS
121:157147
Preparation of mixed acid anhydrides
Suzuki, Naofumi; Motogami, Kenji
Dai Ichi Kogyo Seiyaku Co Ltd, Japan
Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JXXXXF
Patent
Japanese

PATENT NO. KIND DATE APPLICATION NO. DATE
JP 6065137 A2 19940308 JP 1992-245586 19920821
JP 2549047 B2 19961030 JP 1992-245586 19920821

PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
AB CASREACT 121:157147; MARPAT 121:157147
RICOZCOR2 [R1, R2 = C3-24 alkyl, (substituted) Ph; R1 ≠ R2] are prepared by treating RICOZCOR2 (R1 = same as above) with R2COCl (R2 = same as above) in aqueous solns. of alkali metal hydroxides in presence of tertiary amines. 2,2-Dimethylpentanoic acid chloride (163.3 g) was added to a mixture of 72 g acrylic acid, methylcyclohexane, NaOH, H₂O, and pyridine at 0-6° over 2 h and the mixture was stirred at 0-6° for 2 h to give 167.4 g acrylic 2,2-dimethylpentanoic anhydride.

L9 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
108:38354
TITLE:
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:

1988:38354 CAPLUS
108:38354
Mixed anhydrides in peptide synthesis. A study of urethane formation with a contribution on minimization of racemization
Chen, Francis M. F.; Lee, Young; Steinauer, Rene; Benoiton, N. Leo
Dep. Biochem., Univ. Ottawa, Ottawa, ON, K1H 8M5, Can.
Canadian Journal of Chemistry (1987), 65(3), 613-18
CODEN: CJCHAG; ISSN: 0008-4042

DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):

Journal
English
CASREACT 108:38354

AB A study of the factors contributing to urethane formation during the coupling of N-alkoxycarbonyl amino acids with an amino acid ester by the mixed carboxylic-carbonyl acid anhydride method has been carried out, using NMR spectroscopy and high-performance liquid chromatog. for the quantitation of products. Urethane formation is associated primarily with reactions of activated hindered residues such as isoleucine and N-Me amino acids. Of prime importance in dictating the amount of urethane generated is the tertiary amine/solvent combination. N- for minimizing Methyloperidine/dichloromethane is the best combination for minimizing urethane formation. N-methylmorpholine/tetrahydrofuran is a good combination, while triethylamine/dichloromethane is a particularly bad one. In DMF, the differences between these amines are marginal. Aqueous DMF is a good solvent for mixed anhydride generation and coupling. A small excess of substrate reduces the amount of urethane. Less racemization accompanies the coupling of peptide acids in THF than in halogen-containing solvents, N-methylpiperidine being the superior base in these solvents, but not in DMF. Racemization is reduced by one half when methyl chloroformate instead of iso-Bu chloroformate is used in the couplings.

L9 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1982:494044 CAPLUS
57:94044

1982:494044 CAPLUS
57:94044
Aqueous dispersion of fluoropolymers in combination with epoxy-type film formers
Concannon, Thomas P.
du Pont de Nemours, E. I., and Co., USA
U.S., 8 pp.
CODEN: USXXAM
Patent
English

DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

US 4335030 A 19820615 US 1981-279162 19810630
US 4335119 A 19830712 US 1982-349304 19820216
PRIORITY APPLN. INFO.:
AB Aqueous coating dispersions giving films having good release and lubricity properties comprise a fluorocarbon polymer, reaction products of carboxy-functional polymers with polyepoxides, and tertiary amines. Thus, hexafluoropropylene-tetrafluoroethylene copolymer [25067-11-2] 1200.2 g were mixed, and 2812.5 g mixture was added to 2571.40 g acrylic resin-modified epoxy resin. Then, 250.0 g phenolic resole, BKUA 2260 (60529-09-1) (48% solids) was added to the mixture. The resulting dispersion was sprayed on a metal substrate and baked 15 min at 175° and 15 min at 345° to give a film having good adhesion and release properties.

PATENT NO. KIND DATE APPLICATION NO. DATE
US 4335030 A 19820615 US 1981-279162 19810630
US 4335119 A 19830712 US 1982-349304 19820216
PRIORITY APPLN. INFO.:
AB Aqueous coating dispersions giving films having good release and lubricity properties comprise a fluorocarbon polymer, reaction products of carboxy-functional polymers with polyepoxides, and tertiary amines. Thus, hexafluoropropylene-tetrafluoroethylene copolymer [25067-11-2] 1200.2 g were mixed, and 2812.5 g mixture was added to 2571.40 g acrylic resin-modified epoxy resin. Then, 250.0 g phenolic resole, BKUA 2260 (60529-09-1) (48% solids) was added to the mixture. The resulting dispersion was sprayed on a metal substrate and baked 15 min at 175° and 15 min at 345° to give a film having good adhesion and release properties.

L9 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
86:156497
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

1977:156497 CAPLUS
86:156497
Condensation and/or polymerization of organic isocyanates
Bechara, Ibrahim Selim; Carroll, Felix Patrick; Holland, Dewey George; Mascioli, Rocco Lawrence
Air Products and Chemicals, Inc., USA
Ger. Offen. 36 pp.
CODEN: GWKXEX
Patent

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2631733	A1	19770210	DE 1976-2631733	19760715
DE 2631733	C2	19880811		
US 4040992	A	19770809	US 1975-600015	19750729
GB 1541593	A	19790307	GB 1976-13883	19760406
CA 1046062	A1	19790109	CA 1976-251578	19760430
NL 7605553	A	19770201	NL 1976-5553	19760524
NL 182082	B	19870803		
NL 182082	C	19880104		
BE 944325	A1	19761116	BE 1976-169247	19760726
FR 2319421	A1	19770225	FR 1976-22822	19760727
FR 2319421	B1	19820205		
JP 52017484	A2	19770209	JP 1976-90129	19760728
JP 61023214	B4	19860604		

PRIORITY APPLN. INFO.:
AB Hydroxyalkylammonium carboxylates or carbonates are used as catalysts in the manufacture of urethane or isocyanurate polymers from isocyanates. Thus, a polyisocyanurate formulation was prepared from 4,4'-methylenebis(phenyl isocyanate) 100, propoxylated sucrose 20, monofluorotrichloroethane 20, and siloxane surfactant 1.5 parts, mixed with 1.5 part of trimethyl-N-(2-hydroxypropyl)ammonium 2-ethylhexanoate (62314-22-1), and stirred rapidly for 10 s, giving a mixture with gel time 35 s and rise time 57 s.

L9 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1966:466251 CAPLUS

DOCUMENT NUMBER: 65:66251

ORIGINAL REFERENCE NO.: 65:12371f-h

TITLE: Polyurethan foams with uniform closed cells

PATENT ASSIGNER(S): M & T Chemicals Inc.

SOURCE: 14 PP.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6514097		19660502	NL	
AB A compound (I) containing Zerewitinoff reactive H atoms (mol. weight >500), an organic				

PRIORITY APPLN. INFO.:
AB A compound (I) containing Zerewitinoff reactive H atoms (mol. weight >500), an organic

polyisocyanate (II), H₂O, and an organotin catalyst with the general formula R'CO₂SnR₂(O₂CCH₂CH₂CO₂SnR₂)_n, where R is alkyl, aryl, or aralkyl, R' is C₇₋₂₂ alkyl and n = 1-3, are mixed to give the title products. The II to I weight ratio is preferably 0.01-5.100. I is a polyester modified by II, polyester, polyesteramide modified by II, polyalkylene glycol, polymercaptan, polyamine, or alkylene glycol modified by II. For example, Nax triol 16-56 (polyether of mol. weight 3000 and OH number 56) 100, L-520 (a dimethylpolysiloxane) 1.0, H₂O 2.9, triethylendiamine 0.1, N-ethylmorpholine 0.3, tolylene diisocyanate (80:20 2,4- and 2,6-isomers) 38.6, and bis(dibutyltin laurate) maleate 0.12 part are mixed at 30° and frothed immediately. The mixts. have a rise time of 111 sec. and a gelling time of 115-120 sec., and II has good catalytic action comparable to addition of 0.2 part conventional catalyst such as dibutyltin dilaurate.

L9 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2004 ACS ON STN

ACCESSION NUMBER: 1966:448459 CAPLUS

DOCUMENT NUMBER: 65:48453

ORIGINAL REFERENCE NO.: 65:9110a-d
TITLE: Reaction of an isocyanate with an active hydrogen compound using an antimony carboxylate catalyst

INVENTOR(S): Hindersinn, Raymond R.; Creighton, Stephen M.
PATENT ASSIGNEE(S): Hooker Chemical Corp.

SOURCE: 4 PP.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

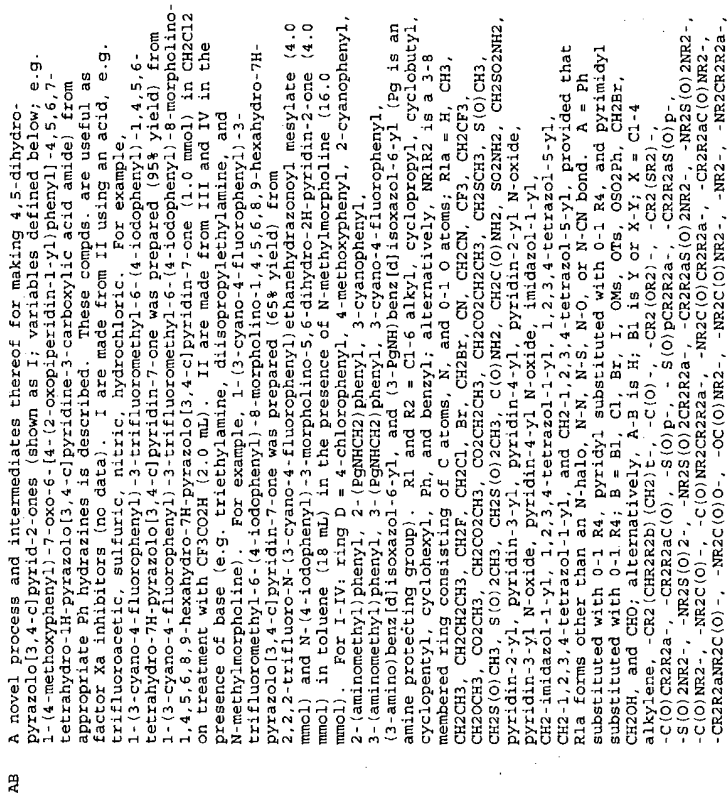
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3245958		19660412	US	19590404
AB				

The catalysis of the reaction of isocyanates with active H compounds, e.g., alcohols, amines, by Sb salts of carboxylic acids, i.e., (RCO₂)₃Sb, was described. Thus, an alkyl resin was prepared from a mixture of polyesters thus: A polyester was prepared by cooking 4 moles 1,4,5,6,7,7'-hexachlorocyclo[2.2.1]-5-heptene-2,3-dicarboxylic acid, 2 moles adipic acid (I), and 7.6 moles glycerol to an acid number of 5-6. A second polyester was prepared in a similar manner from 6 moles I and 10 moles trimethylolpropane cooked to an acid number of 1. A mixture of equal parts of these two polyesters and 10% by weight of triethyl phosphate was then mixed in a ratio of 95 parts to 100 parts with a semi-prepolymer (II) formed from the reaction of 25 parts of a chlorine-containing polyester with 75 parts toluene diisocyanate, 0.5 part Sb tricaprylate and 3 parts H₂O. These components were allowed to expand and cure into a polyurethane foam. The relative merits of these catalysts were evaluated as follows: Cyclohexanol (10 g.) was added to a flask and the volume brought to 50 ml. with PhMe. A known quantity of the catalyst was added to proceed to 10 min. at which time 13.55 g. II. The reaction was allowed to proceed 10 min. at excess Bu₃N was added to quench the reaction. After 15 min. the weight of Bu₃N was calculated. The weight-% of isocyanate remaining was (catalyst, % remaining): none, 24; Sb tricaprylate, 0.34; Sb trisnaphthene, 1.7; SbCl₃, 6.3; Et₃N, 14.6; N-methylmorpholine, 19.2; triethanolamine, 21.04; 3-aminopropanol, 22.9. The Sb carboxylates are better than amines as catalysts, because they give faster reaction rates, are not odoriferous, and do not catalyze the hydrolysis of the products.

=> S L4 AND (ACYL CHLORIDE OR ACID CHLORIDE OR SULFONYL CHLORIDE OR ?SULFONYL CHLORIDE)

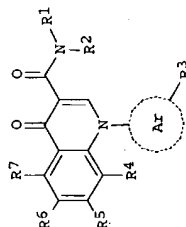
94815 ACYL	
236 ACYLS	
94915 ACYL	
	(ACYL OR ACYLS)
978106 CHLORIDE	
148648 CHLORIDES	
1045785 CHLORIDE	
	(CHLORIDE OR CHLORIDES)
4547 ACYL CHLORIDE	
	(ACYL(W)CHLORIDE)
3781259 ACID	
1422023 ACIDS	
4245362 ACID	
	(ACID OR ACIDS)
978106 CHLORIDE	
148648 CHLORIDES	
1045785 CHLORIDE	
	(CHLORIDE OR CHLORIDES)
33676 ACID CHLORIDE	
	(ACID(W)CHLORIDE)
26689 SULFONYL	



-CR2R2aNR2-, O, -CR2R2aO-, and -CR2R2a-.. Y = C3-10 carbocycle substituted with 0-2 R4a, and 5-10 membered heterocycle containing = 1-4 heteroatoms N, O, and S, substituted with 0-2 R4a; addnl. details are given in the claims. For III: Z = Cl, Br, I, OSO2Me, OSO2Ph, OSO2C6H4Me-p.

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:417725 CAPLUS
DOCUMENT NUMBER: 139:6773
TITLE: Preparation of 4-oxoquinoline derivatives as ileal bile acid transporter inhibitors
INVENTOR(S): Kurata, Hitoshi; Hasegawa, Tohru; Ikeda, Takuya; Kono, Keita
PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan
SOURCE: PCT Int. Appl., 523 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2003043992 A1 20030530 WO 2002-JP12077 20021119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, BG, BR, CA, CH, CN, CO, CR, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GW, GM, ML, MR, NE, SN, TD, TG
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, BR, CA, CH, CN, CO, CR, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GW, GM, ML, MR, NE, SN, TD, TG
JP 2003212853 A2 20030730 JP 2002-333314 20021118
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): JP 2001-353064 A 20011119
MARPAT 139:6773



AB The title compounds, e.g. I [R1 is aryl or the like; R2 is lower alkyl or the like; R3 is aOEGn+ (X-n) wherein A is oxygen or the like; D is Cl-12 alkylene or the like; E is a single bond or the like; Gm+ is substituted amino or the like; X is an anion; and n is an integer of 1 or 2]; R4, R5 and R7 are each hydrogen or the like; R6 is hydrogen or the like; and Ar is aryl or the like, are prepared in an in vitro test, compds. of this invention at 30 µg/mL gave 83.1% to 100% ileal bile acid transporter inhibition. A formulation is given.

REFERENCE COUNT: 3
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:242219 CAPLUS
DOCUMENT NUMBER: 138:264909
TITLE: Generation of ion exchanger media
INVENTOR(S): Maloisel, Jean-Luc; Thevenin, Nicolas
PATENT ASSIGNEE(S): Amer-sham Biosciences AB, Swed.
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2003024588 A1 20030327 WO 2002-SE1650 20020912
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, BG, BR, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GW, GM, ML, MR, NE, SN, TD, TG
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, BR, CA, CH, CN, CO, CR, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GW, GM, ML, MR, NE, SN, TD, TG
SE 2001-3084 A 20010914
SE 2002-1145 A 20020515

PRIORITY APPLN. INFO.:
AB The present invention relates to a method of generating a separation medium comprising mixed mode cation-exchanger ligands coupled to a base matrix, which method comprises to provide a scaffold comprising a functional group and exhibiting a cyclic core structure; derivatize the scaffold with a reagent comprising a reactive group coupled to a residue R by reacting the functional group of the scaffold with said reactive group; open the cyclic structure of the resulting derivative; and react the product with a base matrix comprising a re-active group. The scaffold presents at least two functionalities: one sulfur-comprising group for coupling to the base matrix and one group that can be transformed into an ionic group.

REFERENCE COUNT: 3
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:117789 CAPLUS
DOCUMENT NUMBER: 138:155355
TITLE: Process for producing acid anhydride having high yield and purity
INVENTOR(S): Shiigi, Hirofumi; Ohshima, Ei-ji; Yamaguchi, Masao
PATENT ASSIGNEE(S): Tokuyama Corporation, Japan
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2003011818 A1 20030213 WO 2002-JP7461 20020724
W: CN, IN, KR, US
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR
JP 2003048861 A2 20030221 JP 2001-233382 20010801
JP 2004035523 A2 20040205 JP 2002-198475 20020708

PRIORITY APPLN. INFO.:

JP 2001-233382 A 20010801
JP 2002-198475 A 20020708

OTHER SOURCE(S):

MARPAT 138:155355

AB A process for producing an acid anhydride which comprises reacting a carboxylic acid, preferably one having a polymerizable group, with a sulfonyl halide compound in the presence of a tertiary amine or of a tertiary amine and an inorg. base, characterized in that the tertiary amine or the tertiary amine and inorg. base are used in an amount of 0.9 to 1.2 equiv to the acid to be generated from the sulfonyl halide compound. Thus, acrylic acid anhydride prepared in a 4-neck 3-L glass reactor comprising methylene chloride 1240 g, inhibitors, acrylic acid 3.0 mol, methanesulfonyl chloride 1.5 mol, mixed with triethylamine 3.0 mol (added dropwise in 2 h) at 30° had a yield of 98% and 98% purity, compared to 75% and 74%, resp., for a similar preparation using 4.5 mol of triethylamine.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:873594 CAPLUS

DOCUMENT NUMBER: 134:164785

TITLE: Process Development of the Synthetic Route to

Sulamerod Hydrochloride

AUTHOR(S): Kowalczyk, Bruce A.; Robinson, James, III; Gardner,

John O.

CORPORATE SOURCE: Chemical Development, Roche Bioscience, Palo Alto, CA,

94504, USA

SOURCE: Organic Process Research & Development (2001), 5(2),

118-121

CODEN: OPRDFK; ISSN: 1083-6160

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Process development of a fairly long synthetic route (12 linear, 14 overall steps) was undertaken for manufacture of Sulamerod hydrochloride. Process improvements were highlighted by aromatic chlorination choices in making dichlorobenzodioxan and acetylaminochloroketone, a transfer hydrogenation reducing a nitro group and simultaneous aromatic dechlorination without ketone reduction to give the aminoketone, and use of a potential mutagenic iodosulfonamide to make the quaternary salt. The chemical was scaled-up into pilot plant reactor vessels to produce multikilogram amounts of Sulamerod hydrochloride suitable for drug development. Sulamerod hydrochloride is a potent 5-HT₁ receptor antagonist and clin. candidate for the treatment of gastrointestinal disorders.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:557147 CAPLUS

DOCUMENT NUMBER: 121:157147

TITLE: Preparation of mixed acid anhydrides

INVENTOR(S): Suzuki, Naofumi; Motogami, Kenji

PATENT ASSIGNEE(S): Dai Ichi Kogyo Seiyaku Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXKAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06065137	A2	19940308	JP 1992-245586	19920821
JP 2549047	B2	19961030	JP 1992-245586	19920821

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

AB R1C02C0R2 [R1, R2 = C3-24 alkyl, (substituted) Ph; R1 = R2] are prepared by treating R1C02H (R1 = same as above) with R2C0C1 (R2 = same as above) in aqueous solns. of alkali metal hydroxides in presence of tertiary amines. 2,2-Dimethylpentanoic acid chloride (163.3 g) was added to a mixture of 72 g acrylic acid, methylcyclohexane, NaOH, H₂O, and pyridine at 0-6° over 2 h and the mixture was stirred at 0-6° for 2 h to give 167.4 g acrylic 2,2-dimethylpentanoic anhydride.

L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:135062 CAPLUS

DOCUMENT NUMBER: 120:135062

TITLE: Process for preparing β-anomer enriched

2-deoxy-2,2-difluoro-D-ribofuranosyl arylsulfonates

INVENTOR(S): Chou, Ta Sen; Jones, Charles D.

PATENT ASSIGNEE(S): Eli Lilly and Co., USA

SOURCE: U.S., 5 pp.

CODEN: USXXAM

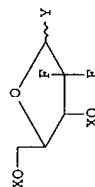
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5252756	A	19931012	US 1992-209885	19920622
CA 2098885	AA	19931223	CA 1993-209885	19930621
CA 2098885	C	20030729		
EP 576228	A1	19931229	EP 1993-304816	19930621
EP 576228	B1	19990203		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 06058664	A2	19940301	JP 1993-149146	19930621
AT 176479	E	19990215	AT 1993-304816	19930621
ES 2127249	T3	19990416	ES 1993-304816	19930621
PRIORITY APPLN. INFO.:			US 1992-902143	A 19920622
OTHER SOURCE(S):			CASREACT 120:135062; MARPAT 120:135062	



AB A stereoselective process for preparing β-anomer enriched title compds. [I: X = HO-protecting group; Y = (un)substituted arylsulfonyloxy] involves reaction of a lactol I (X = same as above; Y = OH) with a sulfonylating agent and an acid scavenger in an inert solvent. The acid scavengers are various amines (e.g. Et₃N). The amount of the acid scavenger is approx. 1-2 molar equivalent. The sulfonylating agents are arylsulfonyl chlorides. I are useful as intermediates for antineoplastic and/or antiviral nucleosides. Thus, to 100 mg I (X = Bz, Y = OH) were added 2 mL CH₂Cl₂, 0.026 mL Et₃N, and 79.9 mg 2,4,6-trisopropylbenzenesulfonyl chloride to give, after 18 h, 100% I (X = Bz, Y = 2,4,6-trisopropylbenzenesulfonyloxy) with a β to α anemic ratio of 24:1. A total of 13 β-anomer enriched I were prepared

L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:135528 CAPLUS

DOCUMENT NUMBER: 116:135528
TITLE: Performance-oriented packaging standards; changes to classification, hazard communication, packaging and handling requirements based on UN standards and agency initiative
CORPORATE SOURCE: United States Dept. of Transportation, Washington, DC, 20590-0001, USA
SOURCE: Federal Register (1990), 55(246), 52402-729, 21 Dec 1990
CODEN: FERFAC; ISSN: 0097-6326
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The hazardous materials regulations under the Federal Hazardous Materials Transportation Act are revised based on the United Nations recommendations on the transport of dangerous goods. The regulations cover the classification of materials, packaging requirements, and package marking, labeling, and shipping documentation, as well as transportation modes and handling, and incident reporting. Performance-oriented standards are adopted for packaging for bulk and nonbulk transportation, and SI units of measurement generally replace US customary units. Hazardous material descriptions and proper shipping names are tabulated together with hazard class, identification numbers, packing group, label required, special provisions, packaging authorizations, quantity limitations, and vessel stowage requirements.

=>

---Logging off of STN---

=> Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 CA/Caplus records now contain indexing from 1907 to the present
NEWS 4 INFADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-COOLS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available in REGISTRY
NEWS 13 STN Entry Date available for display in REGISTRY and CA/Caplus
NEWS 14 DGENE: Two new display fields added
NEWS 15 DEC 17 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in German (DE) application and patent publication number format changes

NEWS EXPRESS
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SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

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STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6
DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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=> Uploading C:\Program Files\Stnexp\Queries\MIXED ANHYDRIDES.str



chain nodes :
1 2 3 4 6 8 9
chain bonds :
1-2 1-3 1-8 3-4 4-6 4-9
exact/norm bonds :
1-2 1-3 1-8 3-4 4-6 4-9

G1:C,S,P

G2:C,O

G3:C,H

Match level :

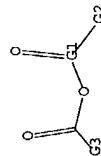
1:CLASS 2:CLASS 3:CLASS 4:CLASS 6:CLASS 8:CLASS 9:CLASS

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



G1 C,S,P

G2 C,O

G3 C,H

Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 14:37:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 12871 TO ITERATE

7.8% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

PROJECTED ITERATIONS: BATCH **COMPLETE**

PROJECTED ANSWERS: 250627 TO 264213

4888 TO 6952

L2 23 SEA SSS SAM L1

=> S L1 SSS FULL

FULL SEARCH INITIATED 14:37:26 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 257478 TO ITERATE

100.0% PROCESSED 257478 ITERATIONS

SEARCH TIME: 00.00.03

L3 5547 SEA SSS FUL L1

=> FILE CAPLUS

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FULL ESTIMATED COST

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ENTRY

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156.05

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FILE LAST UPDATED: 19 Feb 2004 (20040219/ED)

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FULL ESTIMATED COST

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SINCE FILE

ENTRY

0.44

TOTAL

SESSION

156.49

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STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

23 ANSWERS

5547 ANSWERS

DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: <http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S N-METHYLMORPHOLINE
5112312 N
0 N-METHYLMORPHOLINE
0 N-METHYLMORPHOLINE
(N(M)METHYLMORPHOLINE)

=> S N-METHYLMORPHOLINE/CN
L5 1 N-METHYLMORPHOLINE/CN

=> D

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 109-02-4 REGISTRY
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Methylmorpholine

CN 4-Methylmorpholine

CN N-Methylmorpholine

CN NM

CN NSC 9382

FS 3D CONCORD

MF CS H11 N O

CI COM

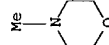
LC

STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSINCESS, BIOSIS, BIOTECNO, CA, CAOLD, CAPLUS, CASREACT, CENB, CEN, CHEMCATS, CHEMINFORMEX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNE, CETHERM*, EMBASE, GHELIN*, HODOC*, IFICDB, IFIPAT, IFIUDR, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTLINE, TOXCENTER, ULIDAT, USPATZ, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



***PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1669 REFERENCES IN FILE CA (1907 TO DATE)

49 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1671 REFERENCES IN FILE CAPLUS (1907 TO DATE)

81 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FILE CAPLUS

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY
15.48
TOTAL SESSION
171.97

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FILE COVERS 1907 - 20 Feb 2004 VOL 140 ISS 9
FILE LAST UPDATED: 19 Feb 2004 (20040219/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L5 AND L3
1671 L5
28871 L3
L6 25 L5 AND L3

=> D 1-25 IBIB ABS HITSTR

L6 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:417725 CAPLUS
DOCUMENT NUMBER: 139:6773
TITLE: Preparation of 4-oxoquinoline derivatives as ideal bile acid transporter inhibitors
INVENTOR(S): Kurata, Hitoshi; Hasegawa, Tōhru; Ikeda, Takuya; Kono, Keita
PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan
SOURCE: PCT Int. Appl., 523 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003043992	A1	20030530	WO 2002-JP12077	20021119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, HT, MR, NE, SN, TD, TG				
JP 2003212853	A2	20030730	JP 2002-333314	20021118

INVENTOR(S): Shiigi, Hirofumi; Ohshima, Ei-ji; Yamaguchi, Masao
PATENT ASSIGNEE(S): Tokuyama Corporation, Japan
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

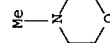
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011818	A1	20030213	WO 2002-JP7461	20020724
W: CN, IN, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
JP 2003048861	A2	20030221	JP 2001-233382	20010801
JP 2004035523	A2	20040205	JP 2002-198475	20020708
PRIORITY APPLN. INFO.:			JP 2001-233382	A 20010801
			JP 2002-198475	A 20020708

OTHER SOURCE(S): MARPAT 138:155355
AB A process for producing an acid anhydride which comprises reacting a carboxylic acid, preferably one having a polymerizable group, with a sulfonyl halide compound in the presence of a tertiary amine or of a tertiary amine and an inorg. base, characterized in that the tertiary amine or the tertiary amine and inorg. base are used in an amount of 0.9 to 1.2 equiv to the acid to be generated from the sulfonyl halide compound. Thus, acrylic acid anhydride prepared in a 4-neck 3-L glass reactor comprising methylene chloride 1240 g, inhibitors, acrylic acid 3.0 mol, methanesulfonyl chloride 1.5 mol; mixed with triethylamine 3.0 mol (added dropwise in 2 h) at 30° had a yield of 91% and 98% purity, compared to 79% and 74%, resp., for a similar preparation using 4.5 mol of triethylamine.

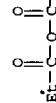
IT 109-02-4, N-Methylmorpholine
RL: RGT (Reagent); RACT (Reactant or reagent)
(in producing acid anhydride having high yield and purity prepared in presence of sulfonyl halide and amine)

RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

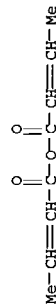


IT 123-62-6P, Propionic acid anhydride 623-68-7P, Crotonic acid anhydride 760-93-0P, Methacryloyl anhydride 1538-75-6P, Pivalic acid anhydride 2051-76-5P, Acrylic anhydride 21947-71-7P, trans-Cinnamic anhydride 34876-10-3P, 3-Methyl crotonic anhydride
RL: IMF (Industrial manufacture); PREP (Preparation)
(producing acid anhydride having high yield and purity prepared in presence of sulfonyl halide and amine)

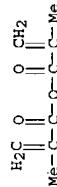
RN 123-62-6 CAPLUS
CN Propanoic acid, anhydride (9CI) (CA INDEX NAME)



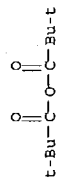
RN 623-68-7 CAPLUS
CN 2-Butenoic acid, anhydride (9CI) (CA INDEX NAME)



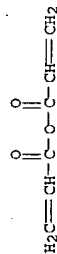
RN 760-93-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, anhydride (9CI) (CA INDEX NAME)



RN 1538-75-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, anhydride (9CI) (CA INDEX NAME)

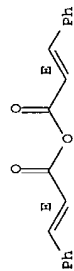


RN 2051-76-5 CAPLUS
CN 2-Propenoic acid, anhydride (9CI) (CA INDEX NAME)

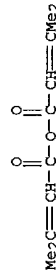


RN 21947-71-7 CAPLUS
CN 2-Propenoic acid, 3-phenyl-, anhydride, (2E,2'E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 34876-10-3 CAPLUS
CN 2-Butenoic acid, 3-methyl-, anhydride (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:97978 CAPLUS
DOCUMENT NUMBER: 138:132624
TITLE: Influencing the activity of plant growth regulators
INVENTOR(S): Van der Krieken, Wilhelmus Maria; Smit, Gerrit
PATENT ASSIGNEE(S): Neth.

SOURCE: U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U.S. Ser. No. 717,872, abandoned.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003027722	A1	20030206	US 2002-87024	20020228
US 6242381	B1	20010605	US 1998-981110	19980313
			US 1998-981110	19980313
			US 2000-717872	B2 20000121
			EP 1995-201686	A 19950622
			NL 1995-1001620	A 19951109
			WO 1996-EP2789	W 19960624

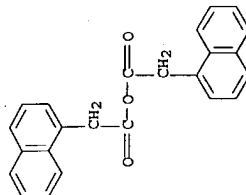
AB The methods for increasing and/or prolonging in vivo or in vitro activity of plant growth regulators (PGRs) comprise locally increasing the concentration of active plant growth regulators in a plant and/or plant part (s) and/or increasing the sensitivity of the plant and/or plant part (s) to the activity of the plant growth regulators. The local increase can for instance take place by administering the PGRs in capsules. The increase in the sensitivity can be brought about by administering elicitors or means which result in the formation of elicitors. By adding both elicitors and (modified, e.g. slow-release) PGRs the induced response can be timed.

IT 5415-58-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

RN 5415-58-7 CAPLUS

CN 1-Naphthaleneacetic acid, anhydride (9CI) (CA INDEX NAME)

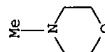


IT 109-02-4, N-Methylmorpholine

RL: RCT (Reactant); RACT (Reactant or reagent)

RN 109-02-4 CAPLUS (preparation of modified plant growth regulators)

CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:248008 CAPLUS
DOCUMENT NUMBER: 137:227842
TITLE: Assignment of skin notation for maximum allowable concentration (MAC) list in Poland

AUTHOR(S): Czerczak, Slawomir; Kupczewska, Malgorzata
CORPORATE SOURCE: Nofel Institute of Occupational Medicine, Lodz, Pol.
SOURCE: Applied Occupational and Environmental Hygiene (2002), 17(3), 187-199
CODEN: AOEH9; ISSN: 1047-322X
PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

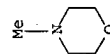
AB Organic chems. from the Polish maximum allowable concentration (MAC) list were analyzed for skin notation. It can be concluded that the dermal dose LD50s determined on exptl. animals ought to be adopted as the fundamental criterion for providing a substance with the percutaneous absorption notation in the MAC list. All chems. with LD50s value below 1000 mg/kg should be provided with the Sk index in the MAC list. For other chems., a skin notation would be considered when repeated human and dermal application tests have shown significant systemic effects following exposure. When information on the characteristics specified above were not available, physicochem. data required to calculate the flow (solubility, octanol/water partition coefficient, weight) were obtained to consider a skin notation.

IT 108-24-7, Acetic anhydride 109-02-4, N-Methylmorpholine
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(assignment of skin notation for maximum allowable concentration list in Poland)
RN 108-24-7 CAPLUS
CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

Ac-O-Ac

RN 109-02-4 CAPLUS

CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:565047 CAPLUS

DOCUMENT NUMBER: 135:152661

TITLE: Preparation of novel carbapenem derivatives of quaternary salt type as antimicrobial agents

INVENTOR(S): Kano, Yuko; Maruyama, Takahisa; Yamamoto, Yasuo;

Shitara, Eiji; Sasaki, Toshiro; Aihara, Kazuhiro;

Atsumi, Kunio; Iwamatsu, Katsuyoshi; Ida, Takashi

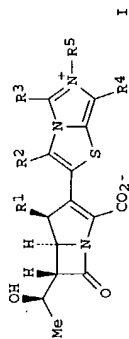
Mekji Seika Kaisha, Ltd., Japan

PCT Int. Appl., 329 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

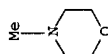
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001055155	A1	20010802	WO 2001-JP529	20010126
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LC, LG, LI, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TW, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BR, BU, CA, CH, CN, CU, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2001028833	A5	20010807	AU 2001-28833	20010126
EP 1251134	A1	20021023	EP 2001-946865	20010126
US 2003022881	A1	20030130	US 2002-182180	20020725
PRIORITY APPLN. INFO.:			JP 2000-17418	A 20000126
OTHER SOURCE(S):			WO 2001-JP529	W 20010126
			MARPAT 135:152661	



AB Carapenem derivs. represented by the general formula [I; R1 = H, Me; R2, R3 = H, halo, lower alkyl optionally substituted by HO or NH2, lower alkylcarbonyl, CONH2, aryl, lower alkythio; R4 = (un)substituted lower alkythio, lower cycloalkylthio, C2-4 alkenylthio, C2-4 alkynylthio, mono- or bicyclic heterocyclythio containing 21 of same or different heteroatoms, lower alkylsulfinyl, (un)substituted lower alkylsulfonyl, lower alkylcarbonyl, arylcarbonyl; or R4 and R5 are linked to each other to represent S(CH2)n (n = 2-4); R5 = (un)substituted lower alkyl, lower cycloalkyl, C2-4 alkenyl, C2-4 alkynyl, (un)substituted 4- to 7-membered aliphatic heterocyclyl optionally containing 21 of O or S atoms] are prepared. These compds. have potent antibacterial activities on methicillin-resistant *Staphylococcus aureus* (MRSA) penicillin-resistant *Streptococcus pneumoniae* (PRSP), *Haemophilus influenzae*, and *p*-lactamase-producing bacteria and a high stability to renal dehydropeptidase enzyme (DHP-1). Thus, (1S,5R,6S)-6-[(1R)-1-hydroxyethyl]-1-methyl-2-(7-methylthioimidazo[5,1-b]thiazol-2-yl)-1-carbapen-2-em-3-carboxylic acid p-nitrobenzyl ester (preparation given) was dissolved in CH2Cl2, cooled in an ice bath, treated with 0.022 mL Me trifluoromethanesulfonate, and stirred at the same temperature for 30 min to give (1S,5R,6S)-6-[(1R)-1-hydroxyethyl]-1-methyl-2-(6-methyl-7-methylthioimidazo[5,1-b]thiazolium-2-yl)-1-carbapen-2-em-3-carboxylic acid p-nitrobenzyl ester trifluoromethanesulfonate which was hydrogenolyzed over 10% Pd-C in a mixture of 1 N phosphate buffer (pH 6.8) and THF under hydrogen atmosphere for 1.5 h to give (1S,5R,6S)-6-[(1R)-1-hydroxyethyl]-1-methyl-2-(6-methyl-7-methylthioimidazo[5,1-b]thiazolium-2-yl)-1-carbapen-2-em-3-carboxylate (inner salt) (II). II in vitro showed min. inhibitory

concentration of 1.56 and 0.025 µg/mL against highly methicillin-resistant *Staphylococcus aureus* M126 and highly penicillin-resistant *Streptococcus pneumoniae*, resp.
109-02-4, 4-Methylmorpholine
IT RCT (Reactant); RACT (Reactant or reagent)
(preparation of novel carapenem derivs. quaternary salts as antimicrobial agents)

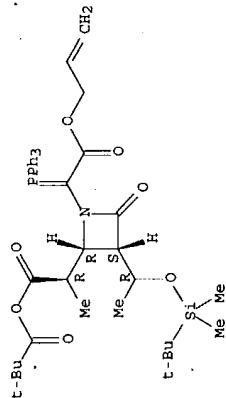
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



IT 351495-87-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel carapenem derivs. quaternary salts as antimicrobial agents)

RN 351495-87-9 CAPLUS
CN 1,2-Azetidinediacetic acid, 3-[(1R)-1-[(1,1-dimethylethyl)dimethylsilyloxy]ethyl]- (αZK)-α2-methyl-4-oxo-α1-(triphenylphosphoranylidene)-, 2-anhydride with 2,2-dimethylpropanoic acid, 1-(2-propenyl) ester, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:873594 CAPLUS
DOCUMENT NUMBER: 134:164785
TITLE: Process Development of the Synthetic Route to Sulamero Hydrochloride
AUTHOR(S): Kowalczyk, Bruce A.; Robinson, James, III; Gardner, John O.
CORPORATE SOURCE: Chemical Development, Roche Bioscience, Palo Alto, CA, 94304, USA
SOURCE: Organic Process Research & Development (2001), 5(2), 116-121
CODEN: OPDPK; ISSN: 1083-6160
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

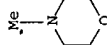
AB Process development of a fairly long synthetic route (12 linear, 14 overall steps) was undertaken for manufacture of Sulamserod hydrochloride. Process improvements were highlighted by aromatic chlorination choices in making dichlorobenzodioxan and acetylaminochlorotone, a transfer hydrogenation reducing a nitro group and simultaneous aromatic dechlorination without ketone reduction to give the aminoketone, and use of a potential mutagenic iodosulfonamide to make the quaternary salt. The chemical was scaled-up into pilot plant reactor vessels to produce multikilogram amounts. Sulamserod hydrochloride is suitable for drug development. Sulamserod hydrochloride is a potent 5-HT₄ receptor antagonist and clin. candidate for the treatment of gastrointestinal disorders.

IT 108-24-7 Acetic anhydride 109-02-4 N-Methylmorpholine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 Process development of multi-step synthetic route to Sulamserod hydrochloride without chromatog. purification and with strategies for intermediate processing)

RN 108-24-7 CAPLUS
 CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

Ac-O-Ac

RN 109-02-4 CAPLUS
 CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

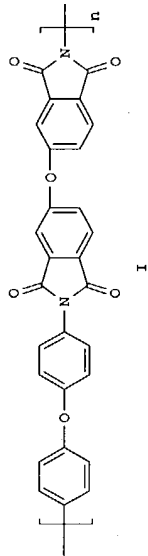


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000.289246 CAPLUS
 DOCUMENT NUMBER: 132:279951
 TITLE: Potassium titanate crystal whisker reinforced polyimide composite material
 Qiu, Zixue; He, Feifeng
 INVENTOR(S): Shanghai Synthetic Resin Inst., Peop. Rep. China
 PATENT ASSIGNEE(S): Faming Zhuanli Shengqing Gongkai Shuomingshu, 8 pp.
 SOURCE: CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1215741	A	19990505	CN 1997-106672	19971023
CN 1085707	B	20020529	CN 1997-106672	19971023

GI

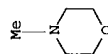


I

AB The composite material comprises a polyimide having structure I 45-90, K2O-SiO₂ 5-30, and filler 5-20%. Thus oxydiphenyl-3,3',4,4'-tetracarboxylic dianhydride 310 and 4,4'-diaminodiphenylether 200 g were polymerized to give a polyamic acid, into which potassium titanate 200, graphite 40 g, acetic anhydride 1700 and triethylamine 170 mL to give a polyimide powder, which was washed, dried, and heat treated to give a composite material, showing d. 1.66 g/cm³, hardness 264 MPa, tensile strength 129 MPa, impact strength 33.1 KJ/M².

IT 109-02-4 N-Methylmorpholine
 RL: CAT (Catalyst use); USES (Uses)
 reinforced in polymer synthesis; potassium titanate crystal whisker

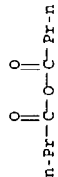
RN 109-02-4 CAPLUS
 CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



IT 106-31-0, Butanoic anhydride 108-24-7, Acetic anhydride

123-62-6, Propionic anhydride
 RL: NUU (Other use, unclassified); USES (Uses)
 (dehydrating agent in polymer synthesis; potassium titanate crystal whisker reinforced polyimide composite)

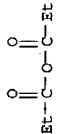
RN 106-31-0 CAPLUS
 CN Butanoic acid, anhydride (9CI) (CA INDEX NAME)



RN 108-24-7 CAPLUS
 CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

Ac-O-Ac

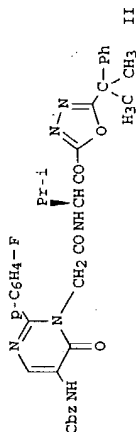
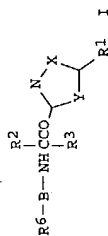
RN 123-62-6 CAPLUS
 CN Propanoic acid, anhydride (9CI) (CA INDEX NAME)



L6 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000147017 CAPLUS
 DOCUMENT NUMBER: 132:78559
 TITLE: Preparation of heterocyclic compounds as serine
 protease inhibitors
 INVENTOR(S): Gyorkos, Albert; Spruce, Lyle W.
 PATENT ASSIGNEE(S): Cortech Inc., USA
 SOURCE: U.S., 107 pp., Cont.-in-part of U.S. 5,891,852.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 18
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6015791	A	20000118	US 1997-984881	19971204
US 5618792	A	19970408	US 1994-345820	19941121
US 5891852	A	19990406	US 1996-762381	19961206
WO 9824806	A2	19980611	WO 1997-US21636	19971205
WO 9824806	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, MY, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, IT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9855894	A1	19980629	AU 1998-55894	19971205
AU 734615	B2	20010621		
EP 954526	A2	19991110	EP 1997-952232	19971205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1247542	A	20000315	CN 1997-180392	19971205
JP 2001507679	T2	20010612	JP 1998-525656	19971205
JP 3220169	B2	20011032		
JP 2001182398	A2	20010717	JP 2000-197432	19971205
RU 2217436	C2	20031127	RU 1999-114606	19971205
US 6037325	A	20000314	US 1998-69823	19980430
NO 9902734	A	19990802	NO 1999-2734	19990604
MX 9905240	A	20000531	MX 1999-5240	19990604
			US 1994-345820	A2 19941121
			US 1996-762381	A2 19961206
			US 1996-698575	A1 19960815
			US 1996-760916	A 19961206
			US 1996-761190	A 19961206
			US 1996-761313	A 19961206
			US 1996-771317	A 19961206
			US 1997-984881	A 19971204
			US 1997-984884	A 19971204
			US 1997-985056	A 19971204
			US 1997-985201	A 19971204
			US 1997-985298	A 19971204
			JP 1998-525656	A3 19971205
			WO 1997-US21636	W 19971205

OTHER SOURCE(S): MARPAT 132:78559
 GI



AB The present invention relates to a series of compds. of general structure I [X, Y = O, N, or S provided that at least one of X or Y = N; R1 = CS-12 aryl, CS-12 alkyl, or CS-12 arylalkenyl with at least one N, S, and O; R2, R3 = H or alkyl; B = S(O)2 or C(O); R6 = heterocycles (generic structures given)] that are useful as serine protease inhibitors, including inhibitors for human neutrophil elastase. In an in vitro test for inhibition of elastase, the title compound II shows the Ki value of 78.3. Compds. of the invention are useful in treating conditions such as adult respiratory distress syndrome, septic shock, and multiple organ failure.

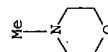
IT 108-24-7, Acetic anhydride 109-02-4, N-Methyl morpholine
 RL: RCT (Reactant); RACT (Reactant or reagent)

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of heterocyclic compds. as serine protease inhibitors)

RN 108-24-7 CAPLUS
 CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

AC-O-AC

RN 109-02-4 CAPLUS
 CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1997:88817 CAPLUS
 DOCUMENT NUMBER: 126:104371
 TITLE: Methods for the preparation of oligodeoxyribonucleotides as virucides
 INVENTOR(S): Iyer, Radhakrishnan P.; Yu Dong; Agrawal, Sudhir; Tan, Weitian; Devlin, Theresa; Habus, Ivan

PATENT ASSIGNER(S): Hybridon, Inc., USA; Iyer, Radhakrishnan P.; Yu, Dong; Agrawal, Sudhir; Ran, Meitlan; Devlin, Theresa; Habus, Ivan
PCT Int. Appl., 71 pp.
CODEN: PIXXD2

SOURCE: PCT Int. Appl., 71 pp.

DOCUMENT TYPE: Patent

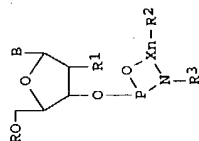
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 12

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 9639413 A1 19961212 WO 1996-US7430 19960523
W: AL, AM, AT, AU, AZ, BE, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
US 5750674 A 19980512 19950523
AU 9658711 A1 19961224 AU 1996-58711 19950523
PRIORITY APPLN. INFO.: US 1995-447384 A2 19950523
US 1995-447494 A2 19950523
US 1995-448131 A2 19950523
US 1995-448632 A2 19950523
US 1995-457198 A2 19950601
WO 1996-US7430 W 19960523
OTHER SOURCE(S): MARPAT 126:104371

GI



AB The present invention provides new mononucleotide synthons I (R = protecting group; R1-R3 = independently H, alkyl, heterocycle, alkoxy; n = 1-3; X = C, O, N, S; B = nucleobase) useful in the preparation of oligodeoxyribonucleotides as virucides and reverse transcriptase inhibitors (no data) having from one to all P-chiral centers that are predominantly and independently in the R or S configuration. The invention also provides methods useful for modulating nucleic acid expressions, both in vitro and in vivo, as well as in traditional hybridization assays.

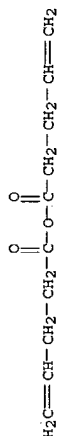
IT 63521-92-6P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of oligodeoxyribonucleotides as virucides)

RN 63521-92-6 CAPLUS

CN 4-Pentenoic acid, anhydride (9CI) (CA INDEX NAME)



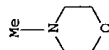
IT 109-02-4, N-Methylmorpholine

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of oligodeoxyribonucleotides as virucides)

RN 109-02-4 CAPLUS

CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:577842 CAPLUS
DOCUMENT NUMBER: 125:219609
TITLE: Chemically-defined non-polymeric valency platform molecules and conjugates thereof
INVENTOR(S): Coutts, Stephen W.; Jones, David S.; Livingston, Douglas A.; Yu, Lin
PATENT ASSIGNEE(S): La Jolla Pharmaceutical Company, USA
SOURCE: U.S., 59 pp., Cont.-in-part of U.S. 5,276,013.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

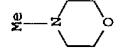
FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

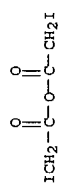
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5552391	A	19960903	US 1993-152506	19931115
US 5162515	A	19921110	US 1990-494118	19900313
JP 0550520	T2	19930819	JP 1991-503584	19910115
JP 2001354569	A2	20011225	JP 2001-106534	19910115
US 5288454	A	19931207	US 1991-852848	19910208
AU 9214118	A1	19920907	AU 1992-14118	19920204
AU 646157	B2	19940210		
JP 05508421	B2	19931125	JP 1992-505775	19920204
JP 2544873	B2	19961016		
CA 2277724	C	20030527	CA 1992-2277724	19920204
NO 9202781	A	19920714	NO 1992-2781	19920714
FI 9203241	A	19920715	FI 1992-3241	19920715
US 5276013	A	19940104	US 1992-914869	19920715
US 6060056	A	20000509	US 1993-118055	19930908
JP 07126186	A2	19950516	JP 1993-298747	19931129
JP 2002087991	A2	20020327	JP 2001-197540	19931129
EP 642798	A2	19950315	EP 1993-309720	19931203
EP 642798	A3	19980916		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CA 2171434	AA	19950316	CA 1994-2171434	19940908
WO 9507073	A1	19950316	WO 1994-US10031	19940908
W: AM, AT, AU, BE, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				

AU 9477209 AU 19950327 AU 1994-77209 19940908
AU 67710 B2 19970501
EP 722318 A1 19960724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
CN 1134109 A 19961023
JP 09500389 T2 19970114
JP 2002085062 A2 20020326
US 5606047 A 19970225
US 5633395 A 19970527
NO 9600952 A 19960502
FI 9601100 A 19960508
US 2002082400 A1 20020627
US 2002107389 A1 20020808
US 2003162933 A1 20030828
PRIORITY APPLN. INFO.:
US 2002-144391
US 1990-466138 B2 19900116
US 1990-494118 A2 19900313
US 1991-652648 A2 19910208
US 1992-914869 A2 19920715
US 1993-118055 A2 19930908
JP 1991-503584 A3 19910115
WO 1991-US293 W 19910115
CA 1992-2076648 A3 19920204
WO 1992-US975 A 19920204
US 1993-142598 A 19931022
US 1993-152506 A 19931115
EP 1993-208288 A 19931122
JP 1993-298747 A3 19931123
JP 1995-508766 A3 19940908
WO 1994-US10031 W 19940908
US 1995-453254 A3 19950530
US 1996-769041 A1 19961218

AB Chemical-defined, non-polymeric valency platform mols. and conjugates comprising chemical-defined valency platform mols. and biol. or chemical mols. including polynucleotide duplexes of at least 20 base pairs that have significant binding activity for human lupus anti-dsDNA autoantibodies. The polynucleotide duplex-containing conjugates are useful as toleragen for treating human autoimmune disease or systemic lupus erythematosus. In example, chemical-defined valency platform mols. were synthesized, conjugated with polynucleotide (PN) and hemagglutinin or sheep red blood cell, and used as toleragen to reduce PN-specific antibody-producing cells. Similarly, conjugates of the platform mols. and melittin peptides were prepared for tolerizing mice to melittin.
IT 109-02-4, N-Methylmorpholine 54907-61-8, Iodoacetic anhydride
RL: RCT (Reactant or reagent)
(Chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or melittin as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

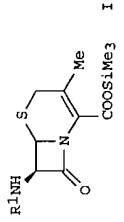


RN 54907-61-8 CAPLUS
CN Acetic acid, iodo-, anhydride (6CI, 9CI) (CA INDEX NAME)

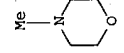


L6 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:902828 CAPLUS
DOCUMENT NUMBER: 123:313633
TITLE: Process for preparing cefalexin
INVENTOR(S): Wang, Zhiya
PATENT ASSIGNEE(S): Xinnua Pharmaceutical Plant, Peop. Rep. China
SOURCE: Faming Zhuanli Shengqing Gongkai Shuomingshu, 13 pp.
CODEN: CNXXEV
Patent
Chinese
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PRIORITY APPLN. INFO.:
US 2002-144391
US 1990-466138 B2 19900116
US 1990-494118 A2 19900313
US 1991-652648 A2 19910208
US 1992-914869 A2 19920715
US 1993-118055 A2 19930908
JP 1991-503584 A3 19910115
WO 1991-US293 W 19910115
CA 1992-2076648 A3 19920204
WO 1992-US975 A 19920204
US 1993-142598 A 19931022
US 1993-152506 A 19931115
EP 1993-208288 A 19931122
JP 1993-298747 A3 19931123
JP 1995-508766 A3 19940908
WO 1994-US10031 W 19940908
US 1995-453254 A3 19950530
US 1996-769041 A1 19961218

PATENT NO. KIND DATE APPLICATION NO. DATE
CN 1103403 A 19950607 CN 1993-115244 19931202
CN 1034177 B 19970305 CN 1993-115244 19931202
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): CASREACT 123:313633
GI



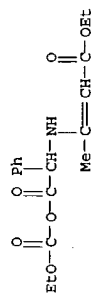
AB Cefalexin is prepared via acylation of the silyl derivs. I [R1 = H, Me3Si(1)] prepared from 7-amino-2-oxo-2-phenylacetic acid with Me3SiCl with R1-O2C-CH:CH:Me-NH-CHPH-CO2-R2 [III; R1, R2 = Me, Et] (also prepared) followed by hydrolysis. Thus, Me-O2C-CH:CH:Me-NH-CHPH-CO2K was condensed with ClCOOEt to give III [R1 = Me, R2 = Et] which was used to acylate I [R1 = H or Me3Si] (also prepared) to give, after hydrolysis, cefalexin. This method costs less and gives better yield.
IT 109-02-4, N-Methylmorpholine
RL: CAT (Catalyst use); USES (Uses)
(process for preparing cefalexin)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



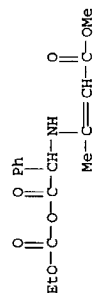
IT 71224-88-9P 169960-40-1P 169960-41-2P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic)

preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparing cefalexin)

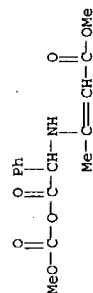
RN 71224-88-9 CAPLUS
CN Benzeneacetic acid, α -[(3-ethoxy-1-methyl-3-oxo-1-propenyl)amino]-, anhydride with ethyl hydrogen carbonate (9CI) (CA INDEX NAME)



RN 169960-40-1 CAPLUS
CN Benzeneacetic acid, α -[(3-methoxy-1-methyl-3-oxo-1-propenyl)amino]-, anhydride with ethyl hydrogen carbonate (9CI) (CA INDEX NAME)



RN 169960-41-2 CAPLUS
CN Benzeneacetic acid, α -[(3-methoxy-1-methyl-3-oxo-1-propenyl)amino]-, anhydride with methyl hydrogen carbonate (9CI) (CA INDEX NAME)



L6 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:557147 CAPLUS

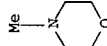
DOCUMENT NUMBER: 121:157147
TITLE: Preparation of mixed acid anhydrides
INVENTOR(S): Suzuki, Naotomi; Motogami, Kenji
PATENT ASSIGNEE(S): Dai Ichi Kogyo Seiyaku Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKKXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

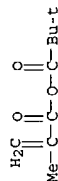
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06065137	A2	19940308	JP 1992-245586	19920821
JP 2549047	B2	19961030		

PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
AB R1CO2COR2 [R1, R2 = C3-24 alkyl, (substituted) ph; R1 \neq R2] are prepared by treating R1CO2H (R1 = same as above) with R2COCl (R2 = same as above) in aqueous solns. of alkali metal hydroxides in presence of tertiary amines. 2,2-Dimethylpentanoic acid chloride (163.3 g) was added to a mixture of 72 g acrylic acid, methylcyclohexane, NaOH, H2O, and pyridine at 0-6° over 2 h and the mixture was stirred at 0-6° for 2 h to give 167.4 g acrylic 2,2-dimethylpentanoic anhydride.

IT 109-02-4, N-Methylmorpholine
RL: RCT (Reactant); RACT (Reactant or reagent)
(in condensation of carboxylic acids with acid chlorides)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



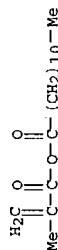
IT 156491-92-8P 157399-82-1P 157399-83-2P
157429-44-2P 157429-45-3P 157429-46-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from acid and acid chloride)
RN 156491-92-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, anhydride with 2,2-dimethylpropanoic acid (9CI) (CA INDEX NAME)



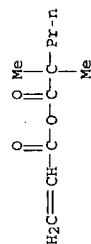
RN 157399-82-1 CAPLUS
CN Dodecanoic acid, anhydride with propanoic acid (9CI) (CA INDEX NAME)



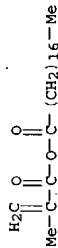
RN 157399-83-2 CAPLUS
CN Dodecanoic acid, anhydride with 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)



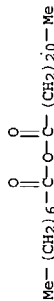
RN 157429-44-2 CAPLUS
CN Pentanoic acid, 2,2-dimethyl-, anhydride with 2-propenoic acid (9CI) (CA INDEX NAME)



RN 157429-45-3 CAPLUS
CN Octadecanoic acid, anhydride with 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)



RN 157429-46-4 CAPLUS
CN Docosanoic acid, anhydride with octanoic acid (9CI) (CA INDEX NAME)



L6 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:650444 CAPLUS
DOCUMENT NUMBER: 119:250444

TITLE: Racemization during aminolysis of activated esters of N-alkoxycarbonyl amino acids by amino acid anions in partially aqueous solvents and a tactic to minimize it
AUTHOR(S): Benoiton, N. Leo; Lee, Young C.; Chen, Francis M. F.
CORPORATE SOURCE: Dep. Biochem., Univ. Ottawa, Ottawa, ON, Can.
SOURCE: International Journal of Peptide & Protein Research, (1993), 41(5), 512-16
CODEN: IJPPC3; ISSN: 0367-8377

DOCUMENT TYPE: Journal

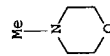
LANGUAGE: English

OTHER SOURCE(S): CASREACT 119:250444

AB Racemization during the aminolysis of activated esters of N-alkoxycarbonyl amino acids by amino acid anions in aqueous DMF was examined by determining the epimeric products by high-performance liquid chromatog. Partial racemization occurred for a variety of esters, particularly when sodium hydrogen carbonate was used to generate the anion of D-valine. The racemization results from prolonged contact of unconsumed ester with the alkaline medium. Variation of the stoichiometry of reagents for reactions with 2-Phe-ONp (Z = PhCH2OC, Np = 4-nitrophenyl) ester revealed that racemization could be minimized by using Na2CO3 as base and a 50% excess of amino acid anion. An efficient synthesis of optically pure 2-L-Phe-D-Val-OH was achieved with a reaction time of 15 min.

IT

RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)
RL: RCT (Reactant); RACT (Reactant or reagent) (peptide coupling of alkoxycarbonyl amino acid active esters with amino acids in presence of base, racemization in)

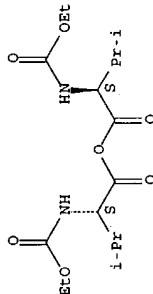


IT 91613-85-3

RL: RCT (Reactant); RACT (Reactant or reagent) (peptide coupling of, with amino acids)

RN 91613-85-3 CAPLUS
CN L-Valine, N-(ethoxycarbonyl)-, anhydride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

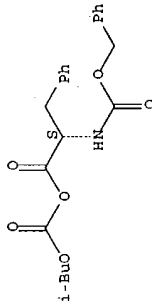


IT 41518-17-6 119153-86-5

RL: RCT (Reactant); RACT (Reactant or reagent) (peptide coupling of, with D-valine in presence of base, racemization in)

RN 41518-17-6 CAPLUS
CN L-Phenylalanine, N-[(phenylmethoxy)carbonyl]-, anhydride with 2-methylpropyl hydrogen carbonate (9CI) (CA INDEX NAME)

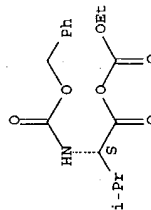
Absolute stereochemistry.



RN 119153-86-5 CAPLUS

CN L-Valine, N-[(phenylmethoxy)carbonyl]-, anhydride with ethyl hydrogen carbonate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:519250 CAPLUS

DOCUMENT NUMBER: 119:139250

TITLE: Process for the preparation of tertiary amine oxides
INVENTOR(S): Koehler, Ulrich; Siegel, Harro; Seybold, Guenther
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDM

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

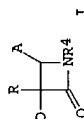
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 545208	A1	19930127	EP 1992-112425	19920721
EP 545208	PT			
CA 2114007	AA	19930204	CA 1992-2114007	19920721
WO 9302048	A1	19930204	WO 1992-US5972	19920721
	W:	AU, BB, BG, BR, CA, CS, FI, HU, JP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US		
	RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GN, ML, MR, SN, TD, TG		
AU 9223980	A1	19930223	AU 1992-23980	19920721
AU 658441	B2	19950413		
ZA 9205487	A	19950431	ZA 1992-5487	19920721
EP 596015	A1	19940511	EP 1992-916790	19920721
EP 596015	B1	19971001		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE		
JP 06508637	T2	19940329	JP 1992-502964	19920721
JP 2825125	B2	19960814		
HU 67341	A2	19950328	HU 1994-185	19920721
AT 188789	E	19971015	AT 1992-916790	19920721
ES 2107548	T3	19971201	ES 1992-916790	19920721
CN 1069024	A	19950217	CN 1992-108760	19920722
LV 10429	B	19950820	LV 1992-550	19921229
LT 3369	B	19950825	LT 1992-261	19921229
NO 9400221	A	19940121	NO 1994-221	19940121
			US 1991-734426	A 19910723
			US 1991-734652	A 19910723
			WO 1992-US5972	A 19920721

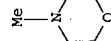
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 119:117027
GI



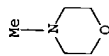
AB Title compds. I (A = B, CH, CH, BC, tpbond, C, BX (CH2)p wherein B = (substituted) Ph; X = bond, NH, S(O)p, (substituted) heteroaryl, (substituted) benzofused heteroaryl, (substituted) piperazinyl(alkyl), etc., p = 0-2; R = H, F, Cl-15 alkyl, Cl-15 alkenyl, Cl-15 alkynyl, B(CH2)h wherein h = 0-3, etc.; D = B', (CH2)mCO, B'(CH2)q, B'(C2-6-alkenylene, etc. wherein B' = naphthyl, (substituted) Ph, m = 1-5, q = 2-6; R4 = substituted Ph, heterocyclyl) or a salt thereof, are prepared (Me2CH)2NLI was added to Et 5-phenylvalerate in THF, followed by 4-methoxybenzylideneaniline in CH2Cl2 to give the title (z)-I (A = R4 = 4-(MeO)C6H4, R = H, D = PhCH2CH2CH2) (II). In hyperlipidemic hamsters, I at 50 mg/kg showed a reduction of serum cholesterol and cholesterol esters of 45 and 95%, resp. Capsule and tablet formulations comprising I are given.

IT 109-02-4, N-Methylmorpholine 118514-42-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of β -lactam hypocholesterolemic)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

EP 545208 A2 19930609 1992-119929 19921124
EP 545208 A3 19930811
EP 545208 B1 19960306
R: AT, BE, DE, ES, FR, GB, NL
DE 4140259 A1 19930609 19911206
AT 1992-119929 19921124
ES 1992-119929 19921124
ES 2084252 T3 19960501 19921204
JP 05246974 A2 19930924 19921204
US 5543515 A 19960806 19940803
PRIORITY APPLN. INFO.:
DE 1991-4140259 19911206
US 1992-983228 19921130
OTHER SOURCE(S): MARPAT 119:139250
AB The title process comprises the treatment of a tertiary amine with aqueous hydrogen peroxide. The starting materials contain less than 0.05% by weight primary and secondary amines. The products contain tertiary amine oxides with a very low content of nitrosamines. The starting materials contain acyl halides, anhydrides, ketenes, or sulfonyl or phosphoryl halides as trapping agents. Said nitrosamines are carcinogens. A 30% by weight solution of hydrogen peroxide (102.4 g) was added to N-methylmorpholine (101 g) containing 0.02% by weight primary and secondary amines. The product contained <0.1% N-methylmorpholine and <50 ppb nitrosamines. Oxidation of N-methylmorpholine containing 0.3% by weight primary and secondary amines gave a product containing 3100 ppb nitrosamines.
IT 109-02-4 N-Methylmorpholine
RL: RCT (Reactant); RACT (Reactant or reagent)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



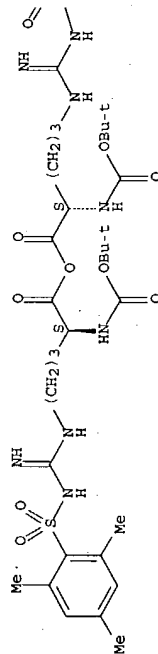
IT 108-24-7, Acetic anhydride
RL: RCT (Reactant); RACT (Reactant or reagent)
(trapping agent for oxidation of tertiary amines)
RN 108-24-7 CAPLUS
CN Acetic acid, anhydride (9CI) (CA INDEX NAME)
Ac-O-Ac
L5 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993.517027 CAPLUS
DOCUMENT NUMBER: 119:117027
TITLE: Substituted beta-lactam compounds useful as hypocholesterolemic agents and processes for their preparation
INVENTOR(S): Burnett, Duane A.; Clader, John W.; Thiruvengadam, Tiruvettipuram K.; Tann, Chou Hong; Lee, Junning; McAllister, Timothy; Colon, Cesar; Barton, Derek H. R.; Breslow, Ronald; et al.
PATENT ASSIGNEE(S): Schering Corp., USA
SOURCE: Eur. Pat. Appl., 98 pp.
CODEN: EPXDXM
DOCUMENT TYPE: Patent



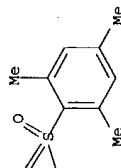
IT 140681-42-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (solid phase peptide coupling of, in preparation of antiallergic peptide)
 RN 140681-42-1 CAPLUS
 CN L-Ornithine, N2-[[[1,1-dimethylethoxy]carbonyl]-N5-[imino]](2,4,6-trimethylphenyl)sulfonylaminoethyl-, anhydride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



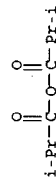
PAGE 1-B



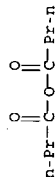
L6 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1992:135528 . CAPLUS
 DOCUMENT NUMBER: 116:135528
 TITLE: Performance-oriented packaging standards; changes to classification, hazard communication, packaging and handling requirements based on UN standards and agency initiative
 CORPORATE SOURCE: United States Dept. of Transportation, Washington, DC, 20590-0001, USA
 SOURCE: Federal Register (1990), 55(246), 52402-729, 21 Dec 1990
 CODEN: FERAC; ISSN: 0097-6326
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The hazardous materials regulations under the Federal Hazardous Materials Transportation Act are revised based on the United Nations recommendations on the transport of dangerous goods. The regulations cover the classification of materials, packaging requirements, and package marking, labeling, and shipping documentation, as well as transportation modes and handling, and incident reporting. Performance-oriented stds. are adopted for packaging for bulk and nonbulk transportation, and SI units of

measurement generally replace US customary units. Hazardous material descriptions and proper shipping names are tabulated together with hazard class, identification nos., packing group, label required, special provisions, packaging authorizations, quantity limitations, and vessel storage requirements.

IT 97-72-3, Isobutyric anhydride 106-31-0, Butyric anhydride 108-24-7, Acetic anhydride 109-02-4
 123-62-6, Propionic anhydride
 RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process) (packaging and transport of, stds. for)
 RN 97-72-3 CAPLUS
 CN Propanoic acid, 2-methyl-, anhydride (9CI) (CA INDEX NAME)



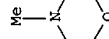
RN 106-31-0 CAPLUS
 CN Butanoic acid, anhydride (9CI) (CA INDEX NAME)



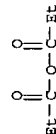
RN 108-24-7 CAPLUS
 CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

Ac-O-Ac

RN 109-02-4 CAPLUS
 CN Morpholine, 4-methyl-, (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 123-62-6 CAPLUS
 CN Propanoic acid, anhydride (9CI) (CA INDEX NAME)



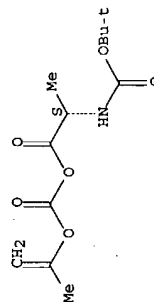
L6 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1991:240639 CAPLUS
 DOCUMENT NUMBER: 114:240639
 TITLE: Preparation and activity of controlled-action anesthetic compounds and pharmaceutical compositions containing them
 INVENTOR(S): Raynal, Serge; Grousset, Maryse; Rancurel, Alain

PATENT ASSIGNER(S): Societe Nationale des Poudres et Explosifs, Fr.:
Laboratoires Pharmascience
PCT Int. Appl., 33 pp.
SOURCE: CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

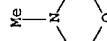
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9011292	A2	19901004	WO 1990-FR197	19900323
WO 9011292	A3	19901115		
W: JP, US				
RW: AL, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
FR 2644697	A1	19900928	FR 1989-3909	19890324
FR 2644697	B1	19920515		
EP 418365	A1	19910327	EP 1990-905561	19900323
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
PRIORITY APPLN. INFO.:				
			WO 1990-FR197	19900323
			FR 1989-3909	19890324
			WO 1990-FR197	19900323

OTHER SOURCE(S): CASREACT 114:240639; MARPAT 114:240639
AB The title compds. are (poly)amino acid derivs. of aminobenzoic acid-derived anesthetics, i.e. (AA)N(R)B [B is such that RNHB is an aminobenzoic acid-derived anesthetic; R = H (unsubstituted Cl-5 alkyl); R = α -amino acid; R = 1-10' with provisions] and their pharmaceutically acceptable salts. Thus, tert-butylcarboxylalanine (BOC-Ala) was reacted with N-methylmorpholine and isopropyl chloroformate, and the anhydride formed was further reacted with benzocaine to form BOC-Ala-benzocaine, which was later N-deprotected. In animal tests, when NH₂(Gly)-Phe-benzocaine (I) (p = 0-4) was injected at a molar concentration equivalent to 1% benzocaine, I (p = 0-2) allowed lengthy anesthesia (5-6 h); for I (p = 3, 4), anesthetic activity was constant for 3 h, then abruptly dropped by 50% (i.e. half of the test animals were no longer anesthetized) in 30 min and disappeared totally in 1-1.5 h. When glycine was replaced by alanine in I, similar results were obtained.

IT 133954-83-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
EN 133954-83-3 CAPLUS
CN L-Alanine, N-[(1,1-dimethylethoxy)carbonyl]-, anhydride with 1-methylethenyl hydrogen carbonate (9CI) (CA INDEX NAME)
Absolute stereochemistry.

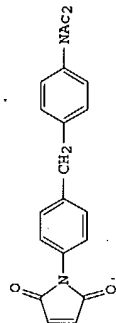


IT 109-02-4, N-Methylmorpholine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with tert-butoxycarbonylalanine and isopropenyl chloroformate)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1986:534893 CAPLUS
DOCUMENT NUMBER: 109:134893
TITLE: Curable composition comprising bismaleimide and maleimide-amide
INVENTOR(S): Stenzenberger, Horst D.
PATENT ASSIGNEE(S): Boots Co. PLC, UK
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4593083	A	19860603	US 1984-630664	19840713
PRIORITY APPLN. INFO.:				
			US 1984-630664	19840713



AB Stable, noncrystg. compns. useful in the production of fiber-reinforced moldings contain 1-20% diimide I, N,N'-(methylenedi-p-phenylene)bismaleimide (II), and optionally other bisimides. Thus, a solution of 112 g mixture of II 75, I 16, and the corresponding mono-Ac compound

8% (prepared from methylenedianiline, maleic anhydride, and Ac2O in DMF), 14 g m-C6H4(COHNH2)2, and 120 g N-methylpyrrolidone was impregnated (32% resin) in glass fabric, dried, cured 3 h at 170°/3 bar, and postcured 15 h at 240° to give a molding with d. 1.94, flexural strength and modulus 625 and 24,500 N/mm2, and interlaminar shear strength 62 N/mm2.

IT 109-02-4
RL: CAT (Catalyst use); USES (Uses)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

SOURCE: Chemical & Pharmaceutical Bulletin (1982), 30(1), 206-13
 CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal
 LANGUAGE: English

AB N-Acetylcysteine and CoA esters of cis-2-alkenoic acids underwent isomerization to the corresponding trans-isomers during their preparation by the mixed anhydride method and also during their alkaline hydrolysis. The isomerization might proceed by interaction of the free SH group and the cis-double bond of 2-alkenoic thiol esters. The use of pyridine as a base and 2.3 equiv of the mixed anhydride to the thiol compound prevented the formation of the trans-isomer. Addition of H₂O₂ during alkaline hydrolysis also prevented the isomerization completely.

IT 109-02-4
 RL: ANST (Analytical study)
 RN (Isomerization in preparation of octenyl-acetylcysteine in presence of)
 CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

Me

IT 81425-70-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (Reaction of, with acetylcysteine or CoA)
 RN 81425-70-9 CAPLUS
 CN 2-Octenoic acid, anhydride with methyl hydrogen carbonate, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

MeO

Me

L6 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1977:422395 CAPLUS
 DOCUMENT NUMBER: 87:22395
 TITLE: Ethers and their use as oxydimethylating agents
 INVENTOR(S): Maggiali, Cataldo Aldino; Burness, Donald MacArthur; Perkins, William Clarence
 PATENT ASSIGNEE(S): Eastman Kodak Co., USA
 SOURCE: U.S. 4,800,000
 CODEN: USXXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
US 4025542	A	19770524	US 1975-597950
CA 1062375	A1	19790911	CA 1975-235088
PRIORITY APPLN. INFO.: US 1975-597950 19750721			
AB Poly(oxyethylene) compds., e.g., trioxane, tetroxane, and ACO(CH ₂ O) ₃ AC reacted with RSO ₂ OAc to give RSO ₂ CH ₂ CH ₂ OSO ₂ R (R = Me, Et), useful as			

IT 108-24-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 RN (Reaction of, with methylene dianiline and maleic anhydride)
 CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

Ac-O-Ac

L6 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1985:470922 CAPLUS
 DOCUMENT NUMBER: 103:70922
 TITLE: Direct synthesis of ethylidene diacetate from methyl acetate and synthesis gas by a mixed rhodium-palladium catalyst

AUTHOR(S): Kudo, Kiyoshi; Mori, Sadayuki; Sugita, Nobuyuki
 CORPORATE SOURCE: Inst. Chem. Res., Kyoto Univ., Uji, 611, Japan
 SOURCE: Chemistry Letters (1985), (3), 265-8
 CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal
 LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:70922

AB The hydrocarbonylation of MeOAc to MeCH(OAc)2 by synthesis gas was studied. Several Rh-Pd catalysts and amine or phosphine promoters were investigated with RhO₃, [Rh(CO)2(CH₃CO)₂], [RhCl(PPh₃)₃], [Rh₂(CO)₁₆], or RhCl₃ and [Pd(OAc)₂] with BzSP promoter giving the best results. Conversions of up to 93% and yields as high as 68% were obtained.

IT 108-24-7P
 RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (Formation of, in hydrocarbonylation of Me acetate)
 RN 108-24-7 CAPLUS
 CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

Ac-O-Ac

IT 109-02-4
 RL: PROC (Process)
 RN (Hydrocarbonylation of Me acetate in presence of)
 CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

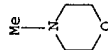
Me

L6 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1982:158744 CAPLUS
 DOCUMENT NUMBER: 96:158744
 TITLE: Studies on the metabolism of unsaturated fatty acids. V. Isomerization of thiol esters of cis-2-alkenoic acids during their preparation and alkaline hydrolysis

AUTHOR(S): Mizugaki, Michinao; Ito, Yoko; Hoshino, Toshiaki; Shiraiishi, Takayuki; Yamana, Hiroshi
 CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

reagents to convert, e.g., HOCH₂CH₂SH to HOCH₂CH₂SCH₂CH₂CH₂OH or BUSH to BUSCH₂CH₂SH, and as quaternization agents for tertiary amines, e.g., pyridine.

IT 109-02-4 RCT (Reactant or reagent)
RL: RCT (Reactant); RACT (Reactant or reagent)
RN (Reaction of, with oxybis(methylene) methanesulfonate)
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



IT 5539-53-7 6744-63-4
RL: RCT (Reactant); RACT (Reactant or reagent)
RN (Reaction of, with poly(oxyethylene) compds.)
CN 5539-53-7 CAPLUS
CN Acetic acid, anhydride with methanesulfonic acid (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 6744-63-4 CAPLUS
CN Acetic acid, anhydride with ethanesulfonic acid (9CI) (CA INDEX NAME)



L6 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1961:51688 CAPLUS
DOCUMENT NUMBER: 55:51688
ORIGINAL REFERENCE NO.: 55:9951d-f
TITLE: Polyurethan foam from tertiary amines and acid anhydrides as catalysts
INVENTOR(S): Parker, Earl E.
PATENT ASSIGNEE(S): Pittsburgh Plate Glass Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

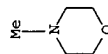
PATENT NO. KIND DATE APPLICATION NO. DATE
US 2957831 19601025 US
AB A polyurethan foam is made by treating a polyester 100 with an organic diisocyanate 20-100 in the presence of NaOAc.3H₂O 0.1-5 parts by weight, and a delayed-action catalyst made by mixing 1 mole of N-methylmorpholine and 1 mole of tetrahydrophthalic anhydride and heating at 100-200° to

cause foaming and curing. The polyester is the reaction product of a saturated dicarboxylic acid containing 4-8 C atoms with a polyhydric alc. and the polyester has an acid number of 1-60 and a OH number of 20-600. For example, g. of a liquid polyester made by reaction of adipic acid 16, diethylene glycol 18, glycerol 1 mole, and 0.1% toluenesulfonic acid based on the mixture was mixed with 30 g. of hydration paste, 5 g. N-methylmorpholine and Ac₂O, 2 g. Emcol H-77 as a wetting agent, and 25 g. tolylene diisocyanate. The mixture was thoroughly stirred and in 3-2 min it foamed. After 1 hr., it was heated to 220°F. for 1 hr. The resulting flexible foam had a fine structure. The hydration paste consisted of a 20% mixture in the polyester.

IT 108-24-7, Acetic anhydride
(catalyst from 4-methylmorpholine and, in polyester reaction with tolylene diisocyanate to polyurethan foam)
RN 108-24-7 CAPLUS
CN Acetic acid, anhydride (9CI) (CA INDEX NAME)

Ac-O-Ac

IT 109-02-4, Morpholine, 4-methyl-
(catalysts from anhydrides and, in polyester reaction with diisocyanates to polyurethan foams)
RN 109-02-4 CAPLUS
CN Morpholine, 4-methyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



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SINCE FILE	TOTAL
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